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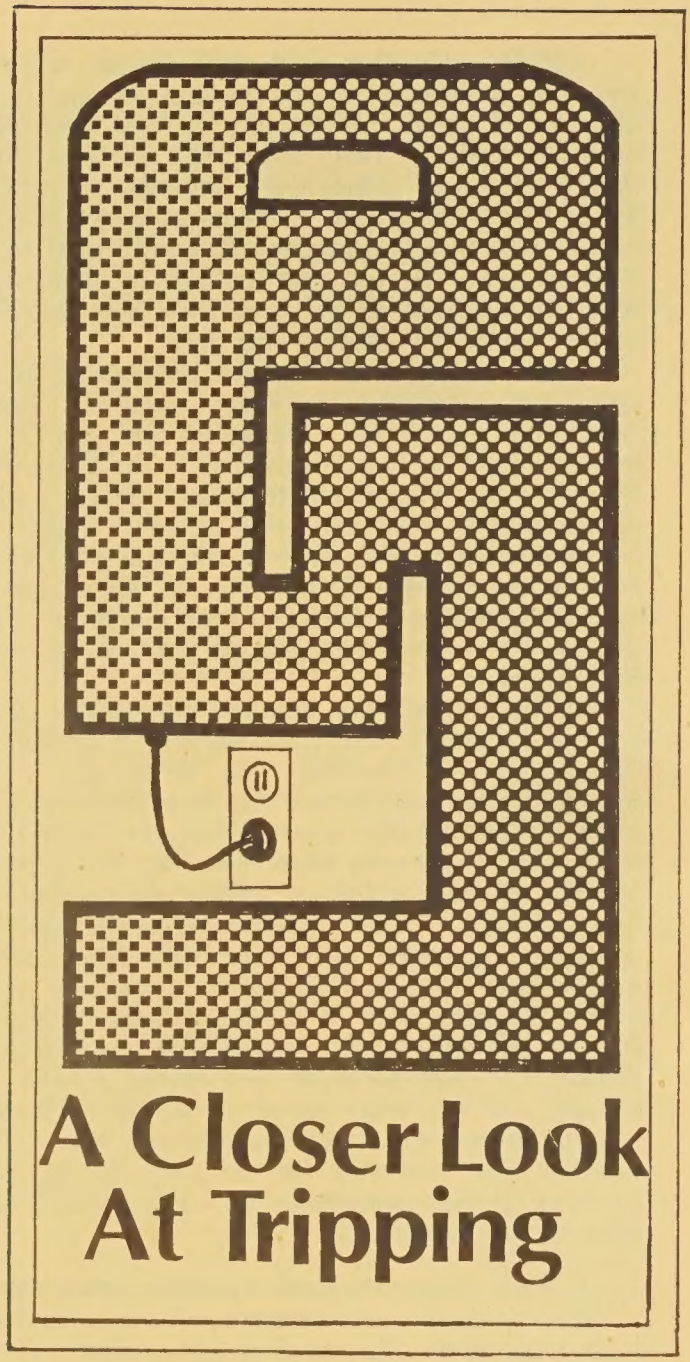

A Closer Look At Tripping

A FURTHER LOOK AT THE PROVEN AND HOPEFUL USES OF A VERY COMPLEX CHEMICAL

A "DO IT NOW" PUBLICATION

This is one in a series of chemical awareness publications by the Do It Now Foundation. If you would like more information on psychedelics or any other drug, please write to us.

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LSD-25, d-lysergic acid diethylamide tartrate, was first synthesized at the Sandoz Research Laboratories in Basel, Switzerland, by Stoll and Hofmann in 1938. It wasn't until 1943, however, that Albert Hofmann accidentally ingested a minute amount of the chemical and subsequently discovered the most powerful psychedelic known to science. Argument over the practical applications of the new drug probably started the same week and has been growing louder and stronger ever since.

LSD's effects first suggested possibilities as an agent for producing temporary psychosis. Many psychologists took LSD themselves and gave it to staff members of mental hospitals in the belief that the experience might lead to greater empathy with mental patients. The U.S. Army tested its usefulness for brainwashing and later stockpiled it in large amounts for possible use as a chemical warfare agent, but when chemicals capable of producing even more bizarre effects were developed, the military lost interest in the drug.

In 1950, Busch and Johnson published a study entitled "Lysergic Acid Diethylamide as an Aid in Psychotherapy" observing that chronically withdrawn patients were better able to verbalize the repressed components of their conflicts during the LSD experience. These early experiments led to the development of the technique known as psycholytic psychotherapy. This psychoanalytically-oriented technique employs LSD (and sometimes other psychedelics) at a low dosage on a repeated basis within the framework of continuing psychotherapy. By the late fifties, LSD had become a well-known adjunct to psychoanalytic procedures, mostly in Europe, and to a lesser extent, in the United States.

Dr. Sidney Cohen ("Psychotherapy with LSD: Pro and Con," in *The Use of LSD*, pp. 581-82) summed up the claims made for LSD and LSD-like drugs by psychiatrists:

1. They reduce the patient's defensiveness and allow repressed memories and conflictual material to come forth. The recall of these events is improved and the abreaction (discharge of emotional tension by recalling a forgotten painful experience) is intense.

2. The emerging material is better understood because the patient sees the conflict as a visual image or in vivid visual symbols. It is accepted without being overwhelming because the detached state of awareness makes the emerging guilt feelings less devastating.

3. The patient feels closer to the therapist and it is easier for him to express his irrational feelings.

4. Alertness is not impaired and insights are retained after the drug has worn off.

Dr. Cohen also noted that there is a marked heightening of the patient's suggestibility. Early researchers had seriously underestimated the part played by non-drug factors in the psychedelic experience. We now know that non-drug factors—conscious and unconscious suggestion from the therapist, the subject's own preconcieved notions of what the experience will be like, and the environment in which the experience occurs—largely determine the nature of the psychedelic experience. This accounts for some of the extravagant claims early researchers made for LSD, and for the wide discrepancies between different research reports. When the researchers believed they were testing a psychotomimetic, the subjective experience tended to mimic mental illness. The patients of Freudian analysts tended to respond in Freudian symbols; Jungian patients tended to respond in Jungian archetypes. People who expected religious experiences tended to have religious experiences. As the importance of non-drug factors to the subjective experience was uncovered, new techniques specifically grounded in the drug-state phenomena were developed, in addition to the use of psychedelics as adjuncts to a variety of existing psychotherapeutic procedures.

Psychedelic psychotherapy is a highly specialized form of brief intensive psychotherapy. Following weeks of intensive preparation, a single massive dose (400+ micrograms—much more than the current normal illicit dose) is given the subject. As opposed to the insight and reality oriented psycholytic therapy, the aim of this kind of LSD experience is to create in the patient a feeling of a new awareness of self, aesthetic appreciation and even religious ecstacy: the creation of an entirely new outlook on life, apparently in much the same manner as intense religious experiences reported in the Bible and in the histories of a number of other religions.

The theory is that therapeutic change is essentially effected by persuading the patient to restructure his values, increase his self-esteem, and begin to believe he is capable of behaving in more effective ways.

In general, pathological functioning in the patient is presumed to have been determined by a reinforcement history which would have predisposed toward root "defects" in the self-system (self-image, self-esteem, self-trust, sense of basic worth), and associated value-attitude distortions and "inadequacies." The major effort of psychedelic therapy is reconstructive, premised on the possibility — via the psychedelic reaction — of

rapidly establishing and then consolidating the patient's functioning on a core of positive self-acceptance and regard. (Unger, et al 1966, *Psychedelics* p. 333)

Many experimenters were favorably impressed with the results shown by psychedelic psychotherapy. Most also, however, offered cautions such as:

. . . it should be emphasized that LSD is not conceived to have any inherent beneficial effects . . . The therapeutic potential of LSD depends primarily on its ability to activate in the patient a period of intense emotionality while still allowing for control, direction and guidance by the therapist. It is the sequence of psychological experience upon which the therapeutic intent and structuring is focused. The analogy that we have sometimes used to try to convey the role of LSD in therapy is that of a scalpel in surgical intervention: the scalpel is helpful, but without the skilled surgeon it is merely a dangerous instrument. (A. Kurland, "The Therapeutic Potential of LSD in Medicine," *LSD, Man and Society,* ed. DeBold)

SOCIAL AND POLITICAL REACTION TO ILLICIT USE

It was a short and easy step from professionally directed to self-directed and non-directed psychedelic experiences. Among the first to use LSD privately for nontherapeutic purposes were physicians, psychiatrists and other mental health professionals, plus laymen who took LSD in their company. Those who felt the experience was beneficial often encouraged other friends to use the drug. Some people, who felt that their lives had been immeasurably enhanced by their LSD experiences, proselytized use of the drug with a fervor usually reserved for religious evangelists. Thus, small circles of LSD users began growing across the country, especially around universities.

In the early sixties, Drs. Timothy Leary and Richard Alpert, along with a small group of friends and students, began experimenting with hallucinogens at Harvard University. In 1962, the group's activities attracted the attention of the Federal Drug Adminstration and Massachusetts law enforcement officials. In 1963, Leary and Alpert were forced to leave Harvard, accompanied by nationwide publicity.

This publicity uncovered a new source of unfailingly sensationalistic news copy. What was previously spread by word of mouth gained the aid of mass media. By the late 1960's, the focus of media attention on hallucinogenic drug use had generated fantastic public interest about LSD and its "mystical" effects. Restrictions designed to curb the booming LSD black market ended therapeutic use and severely hampered meaningful research in the U.S. Since then, most of the work with LSD has been done in Europe, especially Eastern Europe, where illicit use was never so prevalent, nor so hysterically received.

The ban on therapeutic use in the U.S. was largely a reaction to the highly publicized (and often exaggerated) accidents resulting from illicit recreational use. In clinical use, however, LSD has a suprisingly good safety record, at least among therapists and researchers familiar with psychedelic effects. The dangers of psychedelic therapy *"compared favorably with the incidence of complications following electroshock treatments in common use. As compared to almost any other therapy, LSD seems outstandingly safe when properly used."* (Aaronson & Osmond, *Psychedelics,* pg. 326) Even in the general population, the incidence of bad reactions has lessened considerably as people become aware of situations and circumstances under which psychedelics simply cannot be used.

Though therapists from around the world have reported success using LSD in the treatment of drug addiction, alcoholism, depression in terminal cancer patients, neurotic disorders and a wide range of other mental and emotional problems, nearly all of the clinical literature on LSD is vulnerable to criticism. Due to the nature of LSD therapy, it is extremely difficult to put it to completely objective scientific tests; as Dr. Cohen points out, *"No method of using LSD therapeutically has as yet met rigid scientific requirements, which include long-term follow-up and comparison of patients receiving LSD with a control group who receive identical treatment except for the LSD. But, in truth, no other type of psychotherapy has been fully tested by those exacting methods."* (E.M. Brecher, *Licit and Illicit Drugs,* pg. 365)

The most often cited criticisms of LSD studies are inadequate controls and failure to eliminate the possibility of therapist-tester bias. The classic double-blind test (where neither the testers nor the subjects know who has taken the chemical and who is part of the non-treatment control group) is nearly impossible with LSD because it is obvious to an LSD experienced tester which of the subjects have taken the chemical. Further, the necessity of extreme personal

involvement between patient and therapist is not particularly amenable to objective study. It is not simply a question of measuring a patient's reaction to a chemical. Rather, it is a matter of assessing the patient's reaction to largely non-measurable, subjective stimuli. For instance, of the patient-therapist relationship, Dr. Stanislav Grof states, *"we consider the element of trust to be the single most important contributor to successful LSD therapy."* (Grof, *Journal of Psychedelic Drugs,* Vol. 3, pg. 65.)

But, if no one has been completely successful in absolutely proving the value of LSD in therapy, neither has anyone been particularly successful in proving it non-beneficial. In the late 1960's, in an effort to justify the ban on therapeutic use of LSD, a number of studies were undertaken which avoided the double-blind and therapist bias problems by simply removing the therapist. One often-cited study involved careful use of a test group and control group, both receiving identical treatment except for the LSD administration. The group of alcoholics, both tests and controls, were tied to their beds and left alone during the course of the experience. Another study used untrained voluntary lay personnel to sit with the subjects during the course of the experience. Follow-up statistics for both projects indicated no significant difference between test and control group drinking habits. The researchers concluded these projects showed LSD to be of no significant value in the treatment of alcoholics. Critics of the projects point out that the studies merely tested the value of LSD alone in the treatment of alcoholics, which was not the point in question.

Other researchers believe the implications of LSD may extend far beyond psychotherapy. Exploratory work done by Harman and Fadiman (which was interrupted early in 1966 when the Food and Drug Administration, as a strategy in combating the illicit-use problem, declared a moratorium on research with normal human subjects) caused the authors to conclude the possibility that, *" . . . given appropriate conditions, the psychedelic agents can be employed to enhance any aspect of mental performance, in the sense of making it more operationally effective . . . The psychedelic agent acts as a facilitator, an adjunct to the situation it facilitates, and is by itself neither good nor evil, efficacious nor powerless, safe nor dangerous."* (Harman and Fadiman, "Selective Enhancement of Specific Capacities Through Psychedelic Training," *Psychedelics,* Aaronson & Osmond)

Certainly, we have not yet found out all there is to know about LSD: it's possible applications, possible benefits, or even possible dangers. From what we do know, LSD at least has a chance of being a very versatile and beneficial addition to our collection of chemical tools. To support the wholesale banishment of LSD from medical and scientific investigation is certainly more of a hysterical reaction to irresponsible use than a rational assessment of the facts. Possibly, as media preoccupation and the illicit use rate taper off, the hysteria will also die down — and we'll be able to return to a rational perspective.

Joe E. Axton

RECOMMENDED READING

LSD, MAN AND SOCIETY
R.C. DeBold and R.C. Leaf (eds.), Wesleyan Univ. Press, Middletown, CT, 1967.

LSD: THE CONSCIOUSNESS-EXPANDING DRUG
David Solomon (ed.), Berkeley Pub. Corp., New York, NY, 1967.

LICIT & ILLICIT DRUGS
Edward M. Brecher, Little, Brown and Co., 1972.

EVERYTHING YOU'VE ALWAYS WANTED TO KNOW ABOUT CHROMOSOME DAMAGE
D.I.N. Publication No. 125, Nancy Gray.

LSD AND THE MARKETPLACE
D.I.N. Publication No. 115, Joe Axton.

heavy, frequent marijuana use by women may reduce their levels of fertility. But the number of tests is few and not all have shown fertility reduction.

Serious questions have been raised about possible effects on adolescents. During this period of rapid growth, development and change, marijuana may affect adversely the necessary endocrine functioning of adolescents.

So much more has to be studied in this area, but the general rule of thumb is: Adolescents, for these and other reasons, should not use marijuana for recreation.

REPRODUCTION:

Marijuana may affect reproduction. In a number of studies, men, who smoke frequently and heavily, show a significant decline in sperm count and sperm concentration.

Other studies show structural damage to sperm; others suggest a decrease in sperm motility. Finally, some evidence shows possible testicular malfunctioning, including sperm production problems.

What does this mean? It suggests possible interference with male fertility if these functions decrease a man's reproductive capacity. Because sperm function is a continuous function in men the changes are temporary and probably reversible. No evidence to the contrary has been offered.

In women, frequent, heavy marijuana use may cause defective menstrual cycles. Either an unripened egg is produced or the period of fertility is shortened. Once again, evidence suggests that this is a transitory, reversible effect.

Marijuana smoking during pregnancy may lower the baby's birth weight and cause "adverse prenatal influences in male fetuses." What the latter means is vague, more research is needed in this area.

Marijuana does not cause birth defects. Marijuana smoking results in chromosome changes, but not in birth defects. During preganacy it is good practice to stay away from *ALL* drugs, unless necessary and prescribed by your physician.

CANCER:

Finally, there is cancer. Does marijuana cause cancer? We mentioned lung cancer above. But what about other cancers?

Medical researchers claim the immune system is important in defense against cancer. Is cancer a greater threat to a marijuana smoker if the drug adversely affects the immune system? Not according to the findings of medical researchers. They see no present link.

Scientists are studying alleged tumor-producing and tumor-retarding properties of marijuana. Some scientists believe cancerous tumors may be arrested by marijuana; others feel marijuana may cause the tumors.

This research is still in its infancy but it does underscore the problems of marijuana and other drug research. Studies may show one thing or another but duplicating them to insure accurate results is a huge, sometimes impossible, task.

CONCLUSIONS:

There are no established health risks for healthy adult marijuana smokers.

Many drug abuse professionals have urged young people not to smoke marijuana because of alleged health effects and other consequences.

Adolescence is a crucial period in human development. It is the time to develop life skills and to begin using them. Marijuana use may impair this process and may affect one adversely in later life.

Simply stated: Why take a chance?

This is one of a series of publications on drugs, alcohol, chemical awareness and health published by the Do It Now Foundation. For a complete list of available titles please drop us a line and let us know your interests.

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MARIJUANA'S HEALTH EFFECTS

A Do It Now Foundation Publication

Each year the federal government publishes a report, Marijuana and Health, which it sends to Congress.

Robert C. Petersen, PhD, in the seventh annual report, raised an important question:

"Even if questions of health hazards can not be answered simply, can we not provide clear indications of the circumstances under which cannabis poses a serious public health threat?"

His answer was brief and distrubing: "Unfortunatley, in many areas we cannot."

There is little the government says definitely about marijuana. It refuses to interpret information and offer an opinion to the public.

This has not stopped an army of interpretors, each one pushing a position held more subjectively than objectively. But the warning is: Beware of interpretations!

Anyone can intrepret data. Though one interpretation may be more informed than another, it remains opinion only. With this in mind, we can look at marijuana's effect a little more objectively.

Marijuana does affect health. Most effects are adverse but not permanent.

There are two different types of effects: acute and chronic. Acute effects last 6-12 hours and include red eyes, distortions of time and space, active appetite, increased heart rate and blood pressure. Chronic effects are long-term effects which usually are reversible.

HEART:

Marijuana produces changes in heart rate and blood pressure, which pose no serious threat to healthy young adults.

Those with heart problems, especially angina or severe chest pains caused by improper blood flow, should not smoke marijuana. Smoking the plant aggravates angina, even more than the nicotine contained in cigarette smoke.

LUNGS:

A marijuana smoker inhales deeply and holds the smoke in his lungs longer than does a cigarette smoker. Any burning plant substance releases tars, which irritate the tissue lining of the lungs and other respiratory organs. Obviously this isn't healthy. In fact, it prevents proper lung functioning and produces bronchial irritation in frequent, heavy users of marijuana.

One study shows that heavy and frequent marijuana smoking hinders the capacity of the lungs to expel air quickly. This study has not been duplicated. Duplication of tests determines if the results of the first study are valid.

Lung cancer? No proof exists to justify the claim that marijuana smoking causes lung cancer. Some research suggests that smoking marijuana produces lung cell changes which are termed "precancerous." Again, we need more proof.

Smoking marijuana obviously does not help lung functioning. Over a period of time it may even damage lung tissue, but how long and how much are unknown right now.

IMMUNE SYSTEM:

The body uses its network of chemicals and organs to develop patterns of warfare against invading diseases. This is called the immune system. Basically, it is the early warning defense system and it is also the regular troops needed to wage a lengthy battle if the enemy penetrates the early warning system.

Some research has shown marijuana's interference with T-cell formation and patterns. T-cells are the combat troops. The formation of T-cells is a vital function of the immune system's ability to repel invasion.

The effects of marijuana on the immune system are transitory and vary significantly from test subject to test subject.

The only way to prove an adverse change, researchers have concluded, is "to identify a group of marijuana smokers who have demonstrated alterations in T-cell formation and follow them prospectively."

In other words, monitor them and see what happens. If they get sicker, more often, then this may point to possible problems with marijuana in this area.

BRAIN DAMAGE:

What about brain damage? The specter of brain damage haunts us with its assumed finality. The images of imperfection or human inferiority pop up when one speaks those words.

Does marijuana cause brain damage?

One British test widely quoted in the past said yes to the question. Later research exposed the earlier work as fradulant. The methods used in testing were cruel and ethically were unjustifiable. In fact, the test was done on young brain-damaged men who had smoked marijuana and used other drugs. Marijuana was in no way linked to their brain damage.

Research in Massachusetts and Missouri recently concluded that marijuana produces no gross brain damage.

Researchers are looking at microscopic changes in the brain cells of monkeys. Some changes have been noticed.

Subtle changes in brain cell structure occur, but whether or not these changes indicate damage still is unknown. Change itself is neither good nor bad. Change can be transitory and reversible.

Other studies measured the brain's electrical conduction. Those tests showed that marijuana changed brain conduction as measured by EEG's. The EEG's returned to normal after the effects of the drug wore off.

There is an area in which marijuana has a definite and undeniable impact: learning. Short term memory, attention, and recall -- all of which are essential ingredients to learning -- are impaired when one smokes marijuana. Being high hinders learning. Research has shown this over and over again. For young people, this effect is dramatic. Without learning, a youngster ends up uneducated.

Poor learning is reversible in most cases. A disturbing few samples suggest that not everyone affected with poor learning returns to his former capacity. It has not been proven, but a few samples do raise questions which demand answers.

ENDOCRINE GLANDS:

Glands affecting growth, energy levels, stress, and reproduction are called endocrine glands. They secrete hormones. Marijuana, according to some studies, can affect certain endocrine functioning.

For example, the amount of the male sex hormone, testosterone, in the body is reduced after smoking marijuana. Some studies also show that

IDENTIFICATION

Quaalude – Rorer 150 (white) 300 mg. (white) 500 mg. (white)
Sopor – Arnar-Stone 75 mg. (green) 150 mg. (yellow) 300 mg. (orange)
Optimil – Wallace 200 mg. and 400 mg. in blue or pink caps
Parest – Parke-Davis 200 mg. and 400 mg. in blue or pink caps
Somnafac – Smith, Miller & Patch 200 mg. methaqualone HC1 in two-tone blue caps, 400 mg. (Fourte) in dark blue caps
Mandrax – (Canada & England's chief methaqualone drug)

This has been a message in the public interest from

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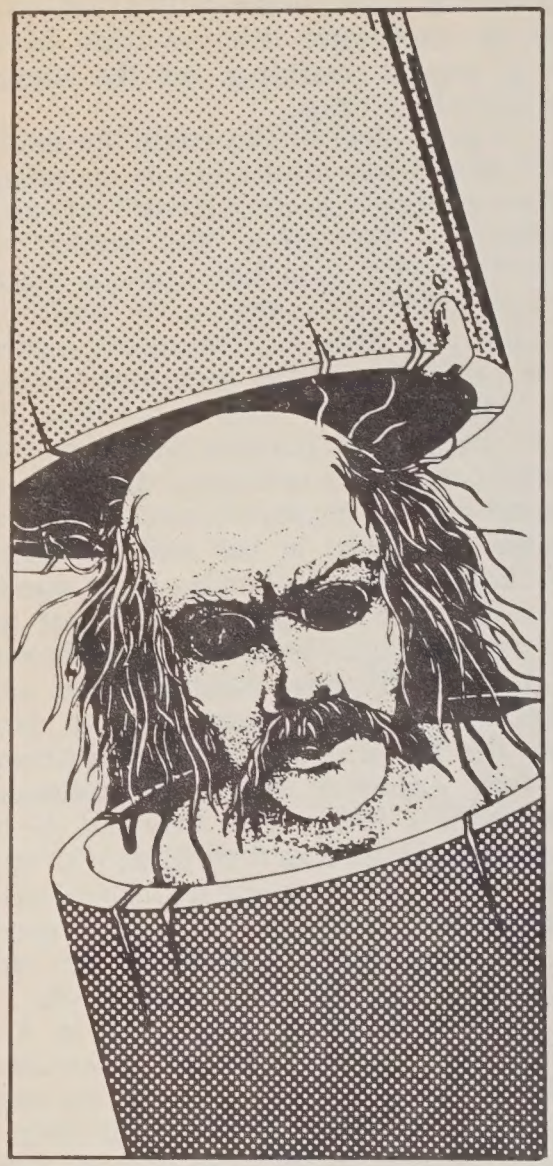
University Review - John Steinbeck
Physicians Desk Reference
Article on Methaqualone by Daniel Zwerdling - Washington Post
And other sources quoted therein

WARNING!

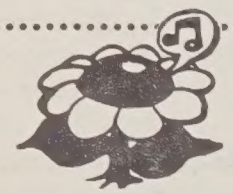
As the relative demand for methaqualone drugs in many communities often outweighs the supply of pharmaceutical chemicals (as it has done with speed and the barbiturates), we want to caution readers that many fakes of methaqualone will, and already are, being peddled to the unwary public.

Analysis data, where accessible, bears this out already in many instances. If demand is too heavy, dealers will often sell any downer or rip-off drug to carry out the deception. Be careful! If you'd like to become more knowledgeable on this chemical, we suggest any independent research except, at this time, that which has been sponsored by the drug companies themselves. This latter "research" is, according to the views of nearly all of us who are handling methaqualone overdoses and addictions, the next best thing to science fiction.

QUAALUDES & SOPORS



AND OTHER
METHAQUALONE DRUGS



A 'DO IT NOW' PUBLICATION

In the early 70's, methaqualone (known on the street as Quaaludes and Sopors) was the blue-chip stock of both the licit and illicit drug industries. It was so abundant and was creating such hassles in college, high school and underground communitites that you rarely find an alternative drug or crisis center not giving regular warnings on the dangers of methaqualone drugs.

A great deal of the credit for methaqualone's popularity must go to its manufacturers for promoting it as completely "safe and non-addictive." Sort of a "fun aspirin" image. That this claim is, in fact, not true must be in no way taken as a reason for doubting the credibility of drug manufacturers; rather only as an indication of the sometimes unrestrainable enthusiasm of their promotion departments and a corresponding lack of enthusiasm on the part of the individual drug companies' research and testing departments. That methaqualone has been in use and recognized as addictive in other countries for a number of years (surveys in Japan showed that half of the drug addicts in Japanese hospitals between 1963 and 1967 were methaqualone addicts) might have been an easy thing to overlook when the Rorer drug firm started promoting the first American brand of methaqualone (Quaalude) in 1965. That they and the half-a-dozen or so American drug firms who've since jumped into the booming methaqualone business still advertise that "physical dependence has not been clearly indicated" can only be judged an acute case of over-optimism.

Methaqualone is marketed as a non-barbiturate, hypnotic-sedative. Doctors prescribe it as a sleeping pill or tranquilizer. Enthusiasts describe its effects as resembling a heavy tranquilizer with a little extra euphoria thrown in. It relaxes the user to the point where walking straight and talking clearly become a chore. It releases inhibitions. It lightens your head and body and makes you feel warm and friendly, affable and extremely witty. It can make an otherwise dull group of acquaintances seem to turn into sparkling bosom-buddies. (Its relaxing and inhibition-releasing qualities are probably why many users attribute aphrodisiac properties to the drug.) After awhile it makes you nod out.

The effects of methaqualone are very pleasurable, obviously, or they wouldn't be so popular. Unfortunately, like so many pleasurable things, they can also be very dangerous – especially so if you've been led to believe otherwise, or are just not aware of the dangers.

The current heavy street use of methaqualone has shown it to be psychologically and physically addicting. Prolonged use builds a physical tolerance for the drug and produces heavy withdrawal symptoms when use is discontinued. Methaqualone has a lot in common with its brother-downs, the barbiturates, and can be even more dangerous in some respects.

– Unlike hard narcotics, the amount of methaqualone needed for an overdose does not increase correspondingly with a user's tolerance, so that while it takes increasing amounts to attain the same degree of stonedness, the amount it takes to overdose remains the same. Eventually heavy users will get to the point where they overdose before they get off.

– Like barbiturates, methaqualone is "potentiated" by alcohol, meaning that mixing the two will result in an overdose due to the liver "cleaning out" the alcohol first, while the methaqulaone keeps re-circulating so you may eventually die of "methaqualone poisoning" – another word for "overdose."

– Like barbiturates, withdrawal from a long run of methaqualone can be deadly and should never be attempted without medical supervision. Heroin withdrawal involves heavy cramps and a sickness similar to the World's Worst case of the flue; barbs and methaqualone go a step further by adding potentially fatal convulsions. Initial withdrawal signs are headaches and severe cramps, followed by convulsions and stomach hemorrhaging three to five days after discontinuing use of the drug. The most common current hospital method of methaqualone withdrawal is to substitute a high dosage of barbiturates for the methaqualone and then proceed with a gradual withdrawal from the barb. You can expect a number of very psychologically-grey days after quitting a methaqualone run.

Some people just don't get along with some chemicals. When taken by prescription your doctor will figure these things out for you, but on the street you have to figure it out for yourself. Adverse reactions to methaqualone may include dizziness, headache, hangover, torpor, restlessness, anxiety, dry mouth, loss of appetite, nausea, vomiting, diarrhea, sweating, foul smelling perspiration, skin eruption, rashes, and/or burning sensations. If some of these symptoms occur there's not a thing you can do about it, except stop taking the drug.

CRISIS TREATMENT

If methaqualone overdose is suspected, the best thing you can do, of course, is to get the subject to a hospital with emergency facilities – or at least to a physician. Trying to keep the subject "out of trouble" by handling an overdose yourself is only playing with his or her life – and not any kind of favor.

Death from almost any kind of a downer overdose occurs after the person has lapsed into a coma. Symptoms of a methaqualone overdose are different from those of barbiturates. Methaqualone can produce a near comatose state without interfering greatly with pulse respiration or pain response; the patient can be revived momentarily, but is very likely to slip back into coma if he is not attended to carefully. If the patient is responsive, and you have good reason to suspect the drug was ingested recently, induce vomiting by inserting your finger down his throat or by making him drink warm soapy water. It is very dangerous, however, to induce vomiting in a person on the edge of unconsciousness because of the possibility of aspiration (inhaling vomit into the lungs – Jimi Hendrix died this way). The principle object in the treatment of a methaqualone overdose is to keep the patient awake, warm and moving without getting physical (like slapping); if an aroused state cannot be easily maintained, medical back-up should be called in immediately. Do not administer amphetamines to counter a methaqualone overdose.

enough to make it appear to himself/herself and friends that the drug is a safe one.

ONE FINAL WORD

All we are really trying to convince you of is the fact that caution is in order for anyone who is doing or considering doing Angel Dust. PCP in various forms has been around since 1967, and almost all of the people who got into it early have dropped out. It is commonly known among older Angel Dust users that the bummer potential is higher than just about any other drug made. Between experience, statistics and a huge amount of research data that is now becoming available on this drug, there should be little doubt that the potential benefits of this type of high certainly don't weigh as heavily as the potential risks.

Be careful. Read all you can on PCP and Angel Dust. If you wish, we will be happy to send you more information on request. Write to:

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FACTS ABOUT ANGEL DUST

Classification: Anesthetic with some qualities which mimic hallucinogenics.

Addiction potential: Not physically addicting in narcotic sense.

Common method of consumption: Smoked.

Overdose potential: For bummers, very high. For respiratory depression and death, moderate. For medical and psychiatric complications, very high.

Legal status: Illegal in all forms except as an immobilizing agent for primates, used in veterinary medicine only.

Common names: PCP, Angel Dust, Angel Hair, Superweed, CJ, KJ, smoking materials said to be sprayed with "insecticide," "embalming fluid," "jet fuel," etc.

Common forms: PCP-treated mint leaves, parsley, oregano, tobacco, occasionally on marijuana. "Angel Dust" and similar preparations may come pre-treated or as a white powder which is sprinkled on above before being smoked.

INTRODUCTION

Angel Dust and its other names (depending on where you live and who your dealer might be) is a smoking preparation made by taking any number of smokeable herbs (mint, parsley, etc.) and treating them with PCP, also known as Phencyclidine.

While other PCP publications talk about tab and capsule use primarily, Angel Dust has some different qualities, so it's only fitting that we devote a special pamphlet to this form of the drug. When PCP is taken as a single, large dose, it's a "trip" situation that lasts a long time, and there are certain problems that may come up as a result.

When you smoke Angel Dust, though, chances are the amount of the drug entering the system is lower, you are using it to get stoned (much like people use weed, etc.), and you tend to do it more often. By all logic it should be more safe, though this is not necessarily true.

PLEASANT REACTIONS

Getting stoned on Angel Dust may be a pleasant experience for many people. After a joint or two, your head starts changing, the conversation spaces out and the music sounds different. (Not better or worse, necessarily, but just different.)

Many people who smoke Angel Dust report that visual perceptions change, and one common happening is that some people feel like they're far removed from the rest of the room, everything seems smaller, and it feels like you're looking through the small end of a telescope. Images sharpen. Your brain feels like it's stretching a bit. Words spoken may end up grouping themselves on the ceiling, hanging there for somebody to notice. Of course the experience tends to be different depending on where you are, what you're doing at the time, and your own unique qualities of mind. The varieties of real experience are almost unlimited.

Many people who smoke Angel Dust regularly report pleasant experiences from the drug. There is a slight chemical taste very often, but otherwise it doesn't taste bad, especially on mint leaves which tend to cool down the smoke and make it a milder drug on the lungs than grass or tobacco.

STRANGER THINGS

But what happens is that, as people get more and more into Angel Dust, in most cases, their behavior changes and they start doing very strange things. The weird part is that they don't remember doing anything strange when they come down. Sometimes the behavior is really bizarre, like getting into a heavy fist-swinging fight, cutting their hand on broken glass, walking through traffic without taking any notice of cars, forgetting to notice that they're burning their mouth on hot coffee, and so on. The extreme cases (like running into a police station naked and calling everyone pigs) are almost as rare as people who took LSD and jumped out windows – but the less bizarre ones which involve very real accidents and violent behavior are more common than you are probably willing to easily believe, if you are a regular user yourself.

Angel Dust, when used regularly, causes a continuous circle of thinking that is almost impossible to break. The amnesia potential of the drug is exceedingly high,

but impossible to prove to the user because he/she never remembers anything except the pleasant parts.

Angel Dust conversations are often very bizarre besides. One typical incident, from a woman who had been smoking for about an hour, took place as she was looking closely at a classical Hindu painting from India:

"These paintings must be air-brushed ... they were air-brushed, weren't they? I have a friend who makes air-brushed clothes. They last for 800 years."

One chronic Angel Dust smoker walked into a local crisis center on a hot night, wearing a fur coat. She calmly proceeded to take off the coat, never realizing that she wasn't wearing anything underneath, even when the panicked staff workers asked her hurriedly to put it back on.

In another incident, one west coast Angel Dust user calmly walked up to a policeman and asked for a light for the joint he was holding, never realizing even after being questioned that there might be anything unusual about this behavior.

These are the less serious things Angel Dust smokers have been known to do, and there are tens of thousands of such stories like this that come from thousands of drug crisis centers and friends of dust-smokers all over North America.

REAL DANGERS

Unfortunately, there is a far more serious side. Thousands of smokers have suffered from freakouts, bummers, paranoia trips and overdoses that are so heavy many of them (especially the dead ones) will always remain seriously affected.

Accidents related to chronic Angel Dust use are all too common. PCP in any form is a powerful anesthetic, and deadens the extremities so much that muscular coordination is all but impossible, though the brain is going a different direction and users seldom realize this until too late.

Paranoia bummers are frequent occurrences, and can be really heavy. Say someone in authority asks you for your I.D. when you're walking stoned down the street having a good time. Your mind thinks: "Sure, I can get it together. I'll just whip out my wallet and say 'Here you are officer —' and look really straight." The reality comes when you discover, due to both the drug's head qualities and physical anesthetic qualities, that you can't seem to make your arms and mouth do and say everything planned. Freakouts can be instantaneous, heavy on the paranoia aspect, even from *thinking* about such a situation when you're really loaded.

Of course, smoking a little Angel Dust once or twice, or on an irregular basis, may never give you any of the experiences we've talked about. The more often you smoke, and the heavier the amount each time, all adds up to more and more potential trouble.

Also, unlike true psychedelics, Angel Dust makes you do things that are truly unnatural. LSD, for example, can magnify and intensify real-life thoughts and personalities, and it is very rare for an acid tripper to do something that wasn't at least a repressed desire all along, or to conjure up a fear that wasn't originally buried somewhere. PCP in all its forms, especially Angel Dust, can make a person think, say and do things that are so out of character in many

cases that the person later refuses to believe that really happened. Also, with true psychedelics there is no amnesia in any but rare cases.

OVERDOSES

Overdosing on Angel Dust is possible, and you can go into a coma from too much too soon. PCP, in all forms, reacts adversely to all types of central nervous system depressants, including alcohol, barbiturates, tranquilizers, and so on. So the combination of Angel Dust and any of these can lead to overdose, near-overdose, and occasionally death. It's hard for many people, especially those who smoke marijuana (which has almost no potentiating factor with other drugs for anything close to a death level) to regard anything else they can smoke as being such a dangerously interacting drug.

CAN YOU BELIEVE IT?

There is only one problem in telling you all of the above facts about Angel Dust: You probably won't believe many of them if you're a current user. It pains us a great deal to write about Angel Dust, because it can be such a bizarre drug that the reality of it is scary. It is so scary that writing about it almost sounds like recounting the old LSD-scare days when people wanted you to believe that almost all drugs caused you to go insane and jump off a 26-story building. The problem is that everything in this pamphlet is true, not made-up fantasy of a warped mind that would do anything to keep you from doing something illegal.

We don't care one bit about illegality in comparison to the value of keeping your health and mind together. We aren't worried about Angel Dust being immoral, or anti-social, or any of the other things that your parents or other people may bring up. (Whether it's immoral or anti-social is somebody else's concern, and there are certainly plenty of people around who constantly remind you it's illegal anyway.)

The biggest obstacle to your believing any of the dire warnings about Angel Dust may be that you have tried it, or have friends who use it and say that it's okay. That's hard to argue with, except that a few friends who have good reactions doesn't mean that there aren't many thousands with strange and bizarre reactions who you don't know. It's a big universe. And, the amnesia effects of Angel Dust, which get worse with the more you use, mean that most people don't remember bizarre actions unless they wind up injured, in the hospital or with some other "visible" reminder of what really happened the night before.

Many people do things that are potentially dangerous for quite awhile before the truth hits home. A heavy barbiturate user may go for years without overdosing. A stunt man may go for years without breaking an arm or leg. A chippie might even use heroin for years, once a week or going without for long intervals before becoming heavily addicted. What we're trying to say is that we know some people can use Angel Dust without any bummers, freakouts, bizarre behavior or anything else serious going wrong, maybe not forever, but long

Some people keep prescription medicine around in case the illness shows up again. They feel it will save the cost of a doctor's visit. This is a major mistake. First of all, just because the symptoms are the same doesn't mean the cause is the same. Using the wrong medication may just cover up or relieve symptoms while the underlying cause worsens. Secondly, many drugs, including barbiturates, have a limited shelf-life. This means they can often lose potency or effectiveness or can, in some cases, change into another substance which may be toxic. If your prescription drug does not have an expiration date on the package, ask your pharmacist how long you can keep it.

Also, a good idea is to keep all medications in the bottle or vial they originally came in. When you put them in a pill box or vial with other pills, it is possible to forget which is which. Also, if you find yourself in a situation where you will be given other medications (such as emergency or illness), you can show your other prescriptions to the doctor. He can then read the original label and ascertain what other medications you are taking. This will prevent your being prescribed a drug which can be harmful when taken along with the medications you are already using.

As medicine becomes more specialized, patients often find themselves under the care of two or more different physicians at the same time. Do not depend on the doctor to ask you what other drugs you are taking. He could assume, quite reasonably, that you aren't taking anything. Therefore, it is your responsibility to make sure he becomes aware of your other medications. After all, the ultimate result involves your body's health.

For information regarding pregnancy and barbiturate use, see CHEMICAL USE/ABUSE AND THE FEMALE REPRODUCTIVE SYSTEM, Nancy Gray, DIN Publication no. 211.

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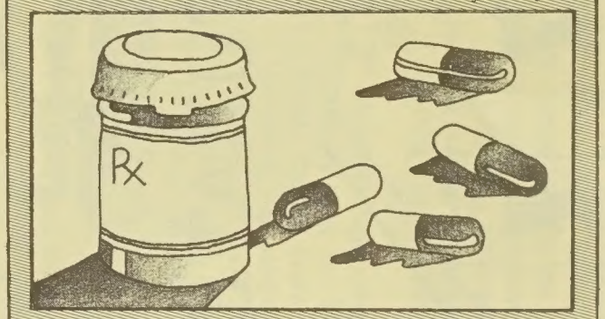
D.I.N. 137 *Reprints Available* *10/76*

BARBITURATES: current use, patterns & problems



A 'DO IT NOW' PUBLICATION

BY NANCY GRAY

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People under the influence can be belligerent and argumentive and in many cases act like a "mean drunk." In fact, being "high" (low seems like a better word) on barbiturates is much like being drunk. The user stumbles around, has slurred speech, trouble focusing the eyes and can erupt into anger over a minor incident. None of this would seem like much fun, so why do people abuse barbiturates? They probably do it for many of the same reasons people get drunk or become alcoholics.

First of all, barbiturates are convenient to use. To get "drunk" one needs only to swallow a few, tasteless pills rather than take the time to ingest three or four somewhat unpleasant tasting drinks. It is easier to hide an addiction in a pill box than have a large supply of bottles around the house. The user's family will not smell alcohol on the breath or notice the trash being filled with empty bottles. Co-workers would be sure to become aware of the person who brings a flask on the job, but would barely notice someone taking "medication" with coffee or a soft drink.

Recently, it was noted that more and more ex-alcoholics were showing up at treatment centers with a new problem: barbiturate and/or tranquilizer addiction. Much of this was started by the use of these drugs to help in the treatment of their addiction to alcohol. For this reason, many treatment facilities in the U.S. and Canada are reducing their use of these psychotropic drugs when dealing with alcoholics. Counselors also complain that emotional therapy is hampered when the client is so sedated he or she can barely think, much less have an intelligent discussion with the therapist.

Many physicians and psychiatrists have also been blamed for over-prescribing. Before the FDA moved barbiturates to stricter controls, it was not unusual for physicians to prescribe barbiturates for minor complaints. Patients, too, had to share the blame. Too often we have felt the doctor hasn't done the job unless medication is prescribed.

Often, one would call the doctor or dentist complaining about a tooth-ache or some other pain. The physician would then call the drugstore and perhaps order Seconals to help alleviate the pain and allow the patient to sleep until he could be seen the following morning. Physicians usually don't order just three or four capsules. The patient often finds himself in possession of perhaps twelve Seconals, more than he needed to last until the following morning. The next time our now-cured patient has problems getting to sleep, he remembers the Seconals he has left over and how nice they were to him when he was in pain. Even if he doesn't do this himself, very often he will offer them to others who complain of lack of sleep.

In many cases, one of the children in the household finds out about "drugs" and decides to try the ones he noticed in the medicine cabinet. Psychotropic drugs or any other type of medication should not be left around the house with such easy access. One would not leave household poisons in the reach of small children. Yet it is not uncommon for the family medicine chest to have many potentially dangerous drugs available for all those who can reach them.

Another common scenario is the patient who comes to the doctor with a sleep problem. Until just recently, the doctor could prescribe barbiturates. This is much easier than trying to ascertain why the patient is having problems sleeping. After all, if it is a psychological problem, he or she should consult a psychiatrist, and psychiatry is not the doctor's field of expertise. Often the doctor's thought was simply, "get the patient some rest and he or she will be more able to deal with what's bothering him."

In theory, this sounds great. Unfortunately, when someone is under tension and having trouble dealing with it, it is all too convenient to "pop a pill" and forget about it for awhile. Sometimes, to be sure, it is good to "escape" (with or without drugs) for a short time and come back with a fresh perspective on a problem. However, in the case of barbiturates, this does not often happen.

Barbiturates can be soothing, comforting and very satisfying, especially in contrast to anxiety and insomnia. However, they do tend to interrupt certain important parts of the sleep cycle, including dreaming. Dreaming is a necessary function and very helpful for personal problem solving. Studies show when people are prevented from dreaming for a few days, they become more psychotic than those who are prevented from sleeping at all but are allowed to daydream. Therefore, in the majority of cases, barbiturate induced sleep really can't help in that regard.

What about the people who already have the tendency to abuse drugs? Over 10% of the population can be identified as addiction-prone. That is, even if they never have had a drug, once they are introduced to it, they would be likely to try it again whenever things become unpleasant. Whether the causes of this tendency are hereditary or environmental or whether some people just have weak characters has not been conclusively determined. But, according to recent sets of statistics, about 10% of all people who drink become alcoholics and by another extensive study, approximately 10% of all those who try heroin become addicts. One can assume that perhaps it is not the drug per se, merely that 10% of the people cannot handle any psychotropic substance responsibly.

Generally, doctors will not continue to prescribe barbiturates for a patient more than a few times. If they become concerned that the patient is abusing them (or is abuse prone), they will refuse to write any more prescriptions and discuss the problem with the patient. The developing barbiturate addict can then go to another doctor of course, not mentioning the previous physician. He or she will just give the same story to the new doctor. If this is successful, the user may go to other doctors, obtaining prescriptions from each one. Most towns have more than one pharmacy so the user doesn't have to worry about the druggist becoming suspicious. All the while, the body is building up tolerance. Hopefully, the user's family will notice something is wrong before he or she ends up in the hospital.

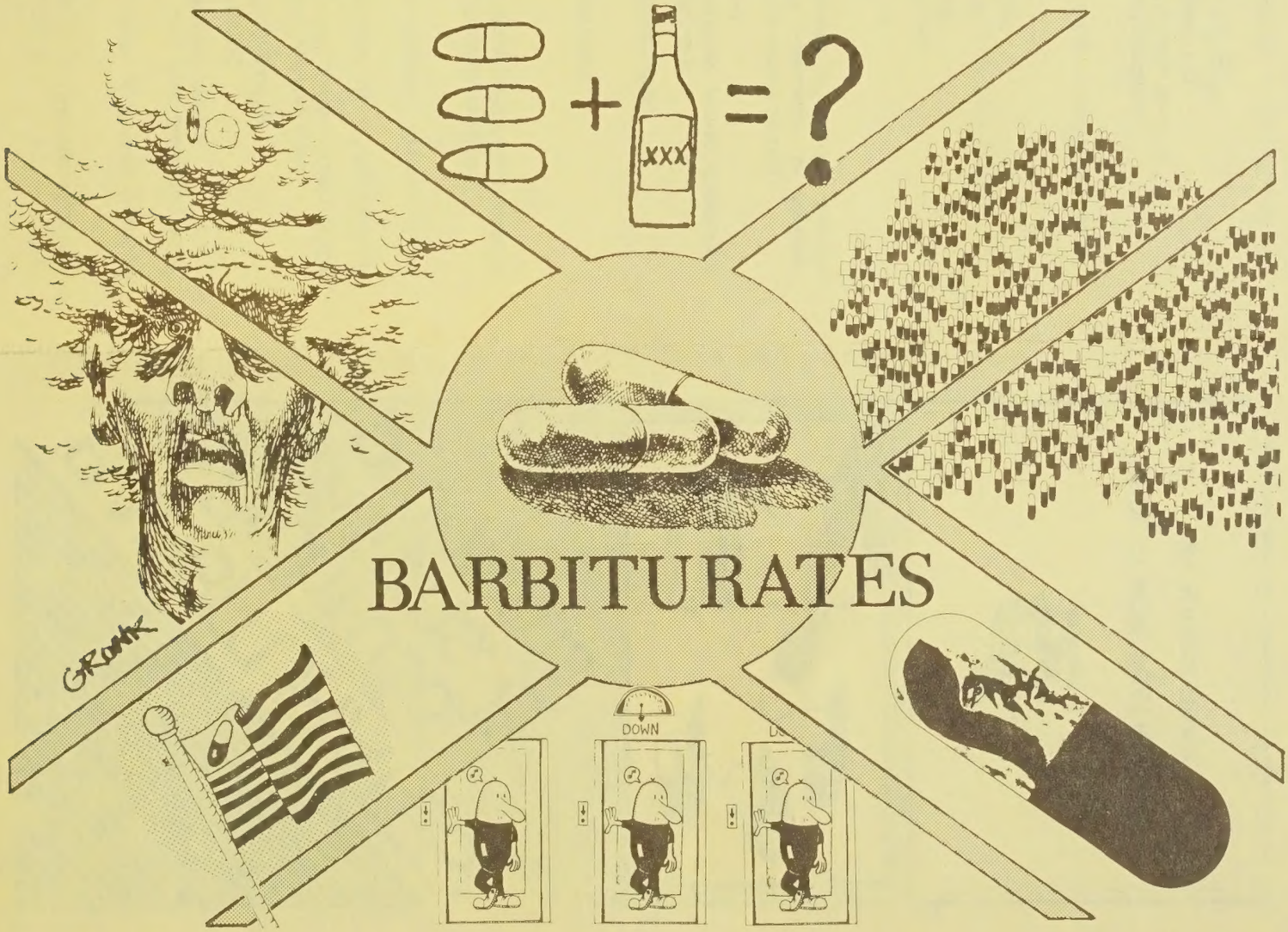
Barbiturates can be deadly when they are used in approximately the same time period as alcohol and/or tranquilizers. The mixture of any two substances

which react to each other in the body is called "synergism". In this case, the interraction of one with the other can produce a reaction greater than the sum of both substances. In other words, two barbiturates and two drinks do not have the expected effect of four CNS depressants, but could have the effect of six or eight which can be an overdose level. The reason for this is that all substances must be detoxified by the liver which can only handle one substance at a time. When faced with a variety of substances, the liver will choose to detoxify the easiest first, leaving the rest to circulate again and again through the body, each time depressing the Central Nervous System further. Alcohol is the easier of these substances to detoxify. Therefore, the liver will leave the barbiturates re-circulating through the body while it is busy with the alcohol. Only when it has substantially finished with the first substance will it begin on the second.

This is also true in the case of barbiturates and tranquilizers. ONE SHOULD NEVER MIX BARBITURATES WITH ALCOHOL OR TRANQUILIZERS. (See DIN Publication no. 121, ALCOHOL-DRUG COMBINATIONS.) This is the major cause of accidental overdose in most countries in the world! Many drugs should not be used at the same time as alcohol. This includes all tranquilizers, antihistamines, codeine and Darvon. Many antibiotics are rendered useless when combined with alcohol. A patient should always ask the doctor if the medication being prescribed is safe to use with alcohol even if you are only a moderate or occasional drinker. Pharmacists are also excellent sources for this kind of information.

If you are with someone who has overdosed, whether it be on barbiturates alone, or tranquilizers or alcohol, or any combination thereof, it is imperative that they be brought to the hospital at once. Symptoms of overdose include a slow and irregular pulse, inability to stay awake, hand tremors, cold and damp feeling skin and inability to focus the eyes. If the patient has passed out and the pulse is weak, time is of the essence. Call an ambulance immediately or drive them to the hospital yourself. If they have not passed out, try to induce vomiting. Place your fingers in the back of the throat to cause gagging. DO NOT GIVE HOT COFFEE or other hot liquids. This will only further dissolve the barbiturates left in the stomach and could cause suffocation if the person is unable to swallow. Keep him on his feet and make him walk. Regularly check the pulse and breathing to see if it's normal. DO NOT GIVE AMPHETAMINES OR OTHER STIMULANTS. This can cause the heart to stop completely. If he has passed out completely, use mouth-to-mouth resuscitation techniques while waiting for the ambulance.

If you are prescribed barbiturates for any good reason, ask your doctor how long you should take them. If you have any left over afterwards, throw them out. As mentioned earlier in this pamphlet, having a medicine chest full of potentially dangerous drugs can cause problem in a household which contains or is visited by children.



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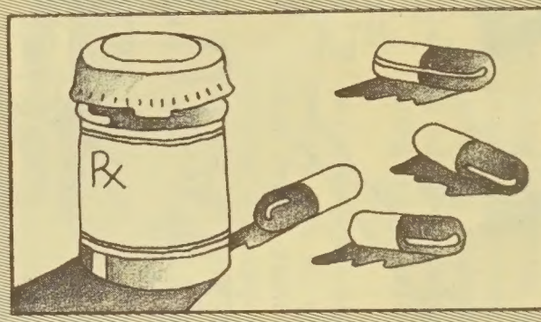
BARBITURATES: current use, patterns, & problems



A 'DO IT NOW' PUBLICATION

BY NANCY GRAY

tried to confirm these findings. They could not.

MARIJUANA AND BRAIN DAMAGE

A lot of confusion and misinformation about marijuana comes from well-publicized studies, which when looked at more closely, prove to be poorly done. One such study, discredited by most experts, was done in Bristol, England. Dr. A. M. G. Campbell, who directed this study, reported that "chronic young marijuana smokers, aged 18 to 26, had suffered as much brain atropy as is normally encountered in people aged 70, 80 and 90." Ten young people were studied. It was revealed later that they were chosen by Dr. Campbell because they had symptoms of senility. Some were multiple drug users and others suffered from brain damage unrelated to marijuana use.

MARIJUANA AND ITS RELATION TO MENTAL AND PHYSICAL PERFORMANCE

Much research has been done to measure the influence of marijuana and THC on physical activities such as reflex, memory, and ability to perform complicated tasks. It is true that both heavy users and occasional users suffer from a slowing down of reflex action when "high". However, heavy users seem to have less trouble in this area. The reasons why are unclear.

Short term memory is definitely affected by marijuana. Many users report, for instance, that it is easy to forget what one has just been talking about when one is "high". Marijuana causes difficulties in concentrating and reading. Therefore, it is believed that it impairs learning and should not be used while in school or studying. No effects on long-term memory, such as remembering past events, has been shown.

MARIJUANA AND DRIVING

A survey by the Boston University Accident Team indicates that marijuana users have more fatal car accidents than non-users. A Canadian study found smoking just a little marijuana generally did not effect driving ability both in their test course and in city driving. They noted, however, that each person reacts differently to marijuana and such difference determines how much a person can smoke before it begins to impair his driving ability.

MARIJUANA AND CRIME

Since 1940, there have been many studies done all over the world on the relation of marijuana use to criminal and/or violent acts. No relationship has been found. It is suggested that marijuana induced drowsiness makes it hard for the user to commit crimes. There is no evidence to suggest that marijuana is a contributing factor in sexual assault or rape.

Research has shown that marijuana actually reduces aggressive behavior in test animals, even with heavy doses. However, if these animals are introduced to a stressful situation, such as being threatened or having their food taken away, they respond more aggressively when under the influence of marijuana or THC. Long-term use has been shown to increase irritability in these animals. That is, they become short-tempered. There are no comparable findings among humans.

MARIJUANA AND TOLERANCE

Heavy users seem to need to smoke more marijuana than occasional users to get the same effect. Whether it is because they have increased tolerance or simply because they have learned to adjust to its effects is not known. Many studies, have suggested that marijuana is not addicting. However, as with any substance, dependence is a possibility.

CONCLUSIONS

Most researchers agree that occasional use of marijuana is not dangerous. Heavy use, though, is another question to which the answers are not yet known.

For more information please write to:

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Phoenix, AZ 85010

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New Facts About Marijuana

State Historical Society of Wisconsin

by Nancy Gray

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Generally, doctors will not continue to prescribe barbiturates for a patient more than a few times. If they become concerned that the patient is abusing them (or is abuse prone), they will refuse to write any more prescriptions and discuss the problem with the patient. The developing barbiturate addict can then go to another doctor of course, not mentioning the previous physician. He or she will just give the same story to the new doctor. If this is successful, the user may go to other doctors, obtaining prescriptions from each one. Most towns have more than one pharmacy so the user doesn't have to worry about the druggist becoming suspicious. All the while, the body is building up tolerance. Hopefully, the user's family will notice something is wrong before he or she ends up in the hospital.

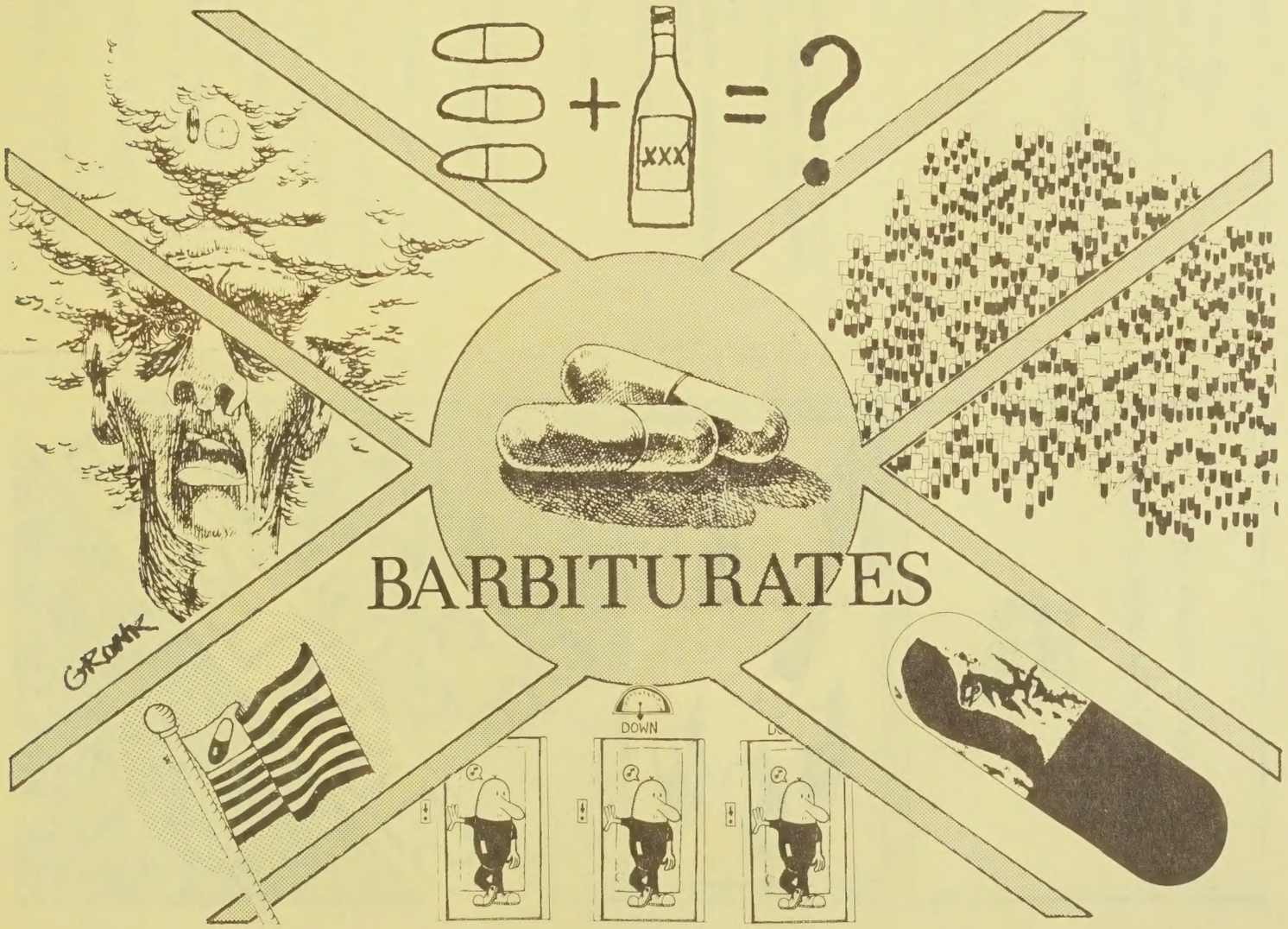
Barbiturates can be deadly when they are used in approximately the same time period as alcohol and/or tranquilizers. The mixture of any two substances

which react to each other in the body is called "synergism". In this case, the interraction of one with the other can produce a reaction greater than the sum of both substances. In other words, two barbiturates and two drinks do not have the expected effect of four CNS depressants, but could have the effect of six or eight which can be an overdose level. The reason for this is that all substances must be detoxified by the liver which can only handle one substance at a time. When faced with a variety of substances, the liver will choose to detoxify the easiest first, leaving the rest to circulate again and again through the body, each time depressing the Central Nervous System further. Alcohol is the easier of these substances to detoxify. Therefore, the liver will leave the barbiturates re-circulating through the body while it is busy with the alcohol. Only when it has substantially finished with the first substance will it begin on the second.

This is also true in the case of barbiturates and tranquilizers. ONE SHOULD NEVER MIX BARBITURATES WITH ALCOHOL OR TRANQUILIZERS. (See DIN Publication no. 121, ALCOHOL-DRUG COMBINATIONS.) This is the major cause of accidental overdose in most countries in the world! Many drugs should not be used at the same time as alcohol. This includes all tranquilizers, antihistamines, codeine and Darvon. Many antibiotics are rendered useless when combined with alcohol. A patient should always ask the doctor if the medication being prescribed is safe to use with alcohol even if you are only a moderate or occasional drinker. Pharmacists are also excellent sources for this kind of information.

If you are with someone who has overdosed, whether it be on barbiturates alone, or tranquilizers or alcohol, or any combination thereof, it is imperative that they be brought to the hospital at once. Symptoms of overdose include a slow and irregular pulse, inability to stay awake, hand tremors, cold and damp feeling skin and inability to focus the eyes. If the patient has passed out and the pulse is weak, time is of the essence. Call an ambulance immediately or drive them to the hospital yourself. If they have not passed out, try to induce vomiting. Place your fingers in the back of the throat to cause gagging. DO NOT GIVE HOT COFFEE or other hot liquids. This will only further dissolve the barbiturates left in the stomach and could cause suffocation if the person is unable to swallow. Keep him on his feet and make him walk. Regularly check the pulse and breathing to see if it's normal. DO NOT GIVE AMPHETAMINES OR OTHER STIMULANTS. This can cause the heart to stop completely. If he has passed out completely, use mouth-to-mouth resuscitation techniques while waiting for the ambulance.

If you are prescribed barbiturates for any good reason, ask your doctor how long you should take them. If you have any left over afterwards, throw them out. As mentioned earlier in this pamphlet, having a medicine chest full of potentially dangerous drugs can cause problem in a household which contains or is visited by children.



As a result of the increased use of marijuana during the 1960's and 1970's, and public demand to either justify or change marijuana laws, there has been a great increase in marijuana research in the last 10-15 years. Some research has been confusing and even contradictory, because some studies use THC, the active ingredient in marijuana, and some use the plant itself. Another problem is that marijuana comes in many strengths depending on species, soil conditions, climate, etc. The National Institute on Drug Abuse (NIDA), to eliminate this testing problem, directed the development of a reasonably strong plant known as Delta-9 to be used in all research.

Most of the marijuana research in the last two years has been in the medical use area. It is now known that marijuana can be effective in the management of glaucoma, an eye disease, and to minimize the unpleasant side-effects of chemotherapy for cancer patients. *(See "Medical Uses of Cannabis," DIN 124.)* The following is a review of the most recent marijuana research.

THE JAMAICA STUDY

Because there were few studies on long-term use of marijuana, the National Institute of Mental Health, in 1975, decided to study the population of Jamaica. In Jamaica, marijuana use has been common in some of the population for a long time. Their marijuana is very strong.

Two groups of 30 people were studied. One group had been smoking about seven marijuana cigarettes a day for an average of 17 years. The second group never used it al all. Both groups also used alcohol and tobacco, worked in the same kinds of jobs, and earned the same salaries.

Many tests were done on both groups including blood, heart, lungs, liver and mental health examinations. When the study was completed, the Secretary of Health, Education and Welfare (HEW) made a report to the U.S. Congress. He explained that when the marijuana users did not also smoke tobacco, they could find no problems with their physical or mental health.

IS MARIJUANA MORE DANGEROUS THAN TOBACCO?

Most researchers agree that marijuana and tobacco can be harmful to the respiratory system (lungs). For instance, both can cause bronchitis. However, most people smoke a lot more tobacco everyday than they do marijuana. On the other hand, most users of marijuana hold the smoke in longer than they do tobacco smoke. This can cause irritation to the throat and lungs. People who use both substances increase their chances of respiratory disease.

MARIJUANA AND CANCER

The marijuana and cancer issue has not been solved. Studies have been done indicating that marijuana may be a cancer "cause" while other studies suggest it may be a cancer "cure". No test has been proven conclusive. The issue of marijuana and cancer is still undecided.

MARIJUANA AND SEX DRIVE

R. L. Christie, a researcher at the New Mexico Department of Hospitals and Institutions, believes that marijuana may stimulate the production of androgenics, which are related to sex drive in both men and women, possibly increasing their sexual activity. There is also some evidence that marijuana can reduce sperm count. However, marijuana *cannot be relied upon* as a birth control method. Even-though many users report that marijuana enhances sex, it is *not* an aphrodisiac.

MARIJUANA AND TESTOSTERONE

Marijuana is suspected of reducing the level of the male hormone, testosterone, especially in men who are heavy users. Dr. Robert Kolodny, a researcher at the Biology Research Foundation, reports a 44% lower than normal level of testosterone in twenty young, male, heavy users. He also finds occasional impotency which usually disappears after marijuana use is discontinued.

MARIJUANA AND PREGNANCY

Dr. Kolodny and other researchers suggest that use of marijuana by pregnant women during the second, third and fourth months of pregnancy may interfere with the development of the male fetus. He also suspects that it may interfere with puberty development of boys.

Many studies have been done on animals using 10/100 times the amount of marijuana usually smoked by people. Harmful effects on the fetus have not been proven. Study results have been contradictory. (For further information see *"Chemical Use/Abuse and the Female Reproductive System", DIN 211.*)

MARIJUANA AND CHROMOSOMES

Studies about marijuana use and chromosome damage have also been confusing and contradictory. Dr. Morton A. Stenchever at the University of Utah Medical Center, reports that marijuana causes 3.4 chromosome breaks per 100 white blood cells. The normal rate of breakage is 1.2 per 100 cells. However, some tranquilizers, aspirin and color TV are also known to cause breakage to some degree.

Dr. Lissy Jarvik, a genetic researcher at the University of California Medical Center, and other researchers disagree with Dr. Stenchever's findings. She says that the subjects studied by him also used other drugs. Some studies have shown no difference in breakage between users and non-users, she maintains. There are also some studies which show less breakage. It is important to note that white blood cells are used by the body to fight disease. They have nothing to do with producing children and are not related to birth defects. (See *"Everything You've Always Wanted to Know About Chromosome Damage", DIN 125.*)

MARIJUANA AND DISEASE

Dr. Gabriel Nahas of Columbia University received a lot of publicity when he reported that his research of marijuana users showed a 40% drop in the production of cells which fight disease (called T-lymphocytes). At the University of California in Los Angeles, researchers

become victims of cannabis psychosis, serious mental illness resulting from heavy marijuana use. I have seen young people in the grip of it. Many of the victims land in psychiatric hospitals, are discharged, but never fully recover.

Take the case of one ninth-grader I knew, a good student and baseball player, a gifted artist, a really dynamic youngster who had a substantial contribution to make to the world. Some friends got him to try marijuana. He enjoyed the high it produced. Soon, he was a heavy user. He lost interest in everything else, literally stopped functioning to the extent that in the middle of his tenth-grade year he was expelled from school. He didn't care; all he wanted to do was smoke pot all the time.

When his parents objected, he left and just wandered, for months. His father finally found him and placed him in a psychiatric institution in the hope he could be straightened out. But he didn't improve. After six months, the hospital discharged him. That was ten years ago. He's still wandering. He has no contribution to make now, and nothing to look forward to.

I have seen too many kids wander away like that, never to recover from the damage they have inflicted on themselves. It is heartbreaking.

With 16 million Americans currently using marijuana, imagine the enormity of the destruction that is taking place in this generation. Yet today no fewer than 11 states have already decriminalized marijuana and there is a drive to make the ruinous junk legal.

Of course, most people who use pot are not criminals, any more than those millions of us who violate traffic laws are criminals. But even those of us who violate traffic laws understand that we must have such laws, that to abolish them would be to descend into chaos.

We need equitable laws dealing with marijuana, not a legal market for the stuff. For if we legalize marijuana, the human suffering that will ensue will surely lead us one day to repeal such a law. And, by that time, there won't be much we can do to help the victims of our folly.

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Marijuana Alert

I. BRAIN AND SEX DAMAGE

All during this decade, evidence has been accumulating that smoking marijuana may be seriously injurious to health. In the past few years, striking new studies have further darkened the picture, demonstrating measurable harm to diverse body organs—above all, to the brain and reproductive functions. Today the specter of a damaged human stock haunts scientific researchers and clinicians alike.

This two-part report brings, first, an account of the new research and, second, one doctor's cry of anguish about the hundreds of pot-damaged teen-agers with whom he has worked.

By Peggy Mann

Scientists from around the world are sending warning signals to the millions who smoke marijuana: mounting evidence indicates that pot smokers may be unwittingly damaging their brains, and decreasing their chances of conceiving and producing completely healthy offspring.

These warnings have emerged from recent gatherings of scientists reporting on their latest research. In July 1978, at the International Symposium on Marijuana held in Reims, France, some 50 researchers from 14 countries presented new studies about marijuana's injurious effects on reproduction, lungs, cellular metabolism and the brain. In March 1979, at a conference in Virginia sponsored by the National Institute on Drug Abuse, investigators revealed more evidence of marijuana's harmful effects on the reproductive system. Three months later, at a conference at New York University Medical School, scientists and psychiatrists added to the growing list of dangers caused by chronic smoking of marijuana.

Responding to the startling evidence, the House of Representatives Select Committee on Narcotics Abuse and Control began hearings on the health hazards of marijuana in July. Rep. Lester Wolff (D., N.Y.),

chairman of the committee, said: "The United States is the most pervasive drug-abusing nation in history. And our most pervasive illegal drug of abuse is marijuana." Citing the latest (1978) national drug-abuse survey, Wolff noted that one in nine high-school seniors was smoking pot on a daily or near-daily basis, an almost 80-percent increase in three years' time; that pot smoking is now common among junior-high students; that evidence indicates pot smoking among 8- to 12-year-olds is increasing.

"Bummed Out." Of all the effects of marijuana, its impairment of the brain and its harm to the reproductive system pose the greatest threats. Pot has an *affinity* for the brain and the sex organs. Marijuana's 61 cannabinoids, substances found exclusively in the cannabis plant, are soluble in fat. They are attracted to the body's fatty organs, where they remain, only gradually clearing from the body. As one researcher put it, "When the high is gone, the pot is not."

The principal psychoactive, or mind-altering, cannabinoid is delta-9-THC. It has been traced radioactively, and it takes five to eight days for just half the THC in a single marijuana cigarette to clear from the body.

One organ that contains a large amount of fat is the human brain. The testes and ovaries also have high fat contents. What does marijuana buildup in these organs do?

One psychiatrist researching this area is Dr. Robert C. Gilkeson of Cleveland, Ohio. In 1976, a tall, handsome teen-ager came into his office. Formerly a good student, Steven complained of poor grades and difficulties in concentration and memory. "Everything I used to like has become a drag. Even chicks. I feel bummed out all the time."

Dr. Gilkeson discovered reversed d's and b's in the young man's handwriting—a classic finding in learning disabilities. He suggested an electroencephalogram (EEG), a brain-wave test. The report came back: "Abnormal EEG. Diffuse encephalopathic process [brain impairment]. Markedly immature for age." His brain-wave readings were typical of those of a 6- to 8-year-old.

Steven had admitted being a chronic (usually defined as daily or near-daily) pot smoker. The psychiatrist advised him to give up pot for two months. Steven was so shaken that he agreed.

In eight weeks his EEG was notably better, though not yet normal. "But," said Dr. Gilkeson, "there was real improvement in Steven's grades, in his mood, memory, humor and speech patterns." Encouraged, Steven agreed to go for another two potless months—after which the EEG report read: "Within normal limits for age."

Because of his work with Steven, Dr. Gilkeson embarked on a study that is still in progress. He has thus far given EEGs to 43 "typical" teen-

agers, who had been high at least twice a week for the previous four months, but who had not smoked pot for 48 hours preceding the test. The results: all 43 EEGs, like Steven's, were "markedly immature" and indicated diffuse brain impairment.

Striking Changes. Dr. Robert Heath, chairman of the department of neurology and psychiatry at Tulane Medical School, showed the Reims symposium slides of magnified brain cells from the limbic area of Rhesus monkeys. (The limbic area—directly involved in control of sex drives, appetites, emotions—is very similar in man and Rhesus monkeys.) These monkeys had been exposed to the smoke of two to three "monkey-sized" marijuana cigarettes (one-fourth of an average human joint) a day at three-percent THC. ("Good pot" sold on the street today has three- to six-percent THC.) Said Dr. Heath, "The smoke of one monkey-sized joint produces the same blood level of THC in the monkey as a human gets in his blood after smoking a 'human-sized' joint of the same THC strength. By checking blood levels, researchers can ascertain so-called 'human equivalency doses' for monkeys and for all other animals."

Result: the monkeys' brain cells showed striking structural changes, including abnormal deposits of opaque material in—and a widening of—the synaptic cleft between neurons. "This," said Dr. Heath, "may cause a slowing down or interruption in the movement of brain messages." There was also an abnormal clumping of the small sacs in the endings of nerve cells that contain the chemical activators of the brain, plus a significant increase of foreign matter in the nerve-cell nuclei. All of these conditions are associated with brain impairment.

At an earlier conference, Dr. Heath noted the rapidity of these changes: "Clinical observation indicates that people might drink for years before serious brain damage occurs. But it would seem from the monkey studies that you have to use marijuana for only a relatively short time in moderate to heavy use before evidence of brain damage begins to develop."

One of the symptoms reported by chronic pot smokers is impairment of short-term memory. Neurologist William H. Stuart of Atlanta, Ga., reports the case of a 28-year-old building subcontractor who smoked pot daily (but took no other drugs and drank only beer). After five years, he would look at a blueprint, walk over to his workmen and forget what to tell them. "He stopped smoking pot two years ago," says Dr. Stuart. "But his short-term memory has not improved at all. He has lost his business. And now he's working for another subcontractor—hammering nails."

Clinicians who see human results like this are as concerned as the researchers. Dr. Mitchell Rosenthal, president of Phoenix House Foundation (which runs a residential-treat-

ment program for drug abusers), represents the findings of many drug therapists when he says: "Most of the time, when kids stop smoking pot, they will regain what short-term memory they have lost. But I've also seen cases of kids who were chronic users, or who combined pot with another drug, where there was no subsequent improvement."

Effects on Sex. Perhaps the most important structure in the limbic area is a small lump of tissue in the center of the brain: the hypothalamus. Hanging from this is a still smaller lump: the pituitary. As little as a billionth of a gram of THC affects the hypothalamus, which, in turn, affects the pituitary, which regulates endocrine function and the hormones controlling sex and reproduction.

In November 1978, Drs. Joan Bauman and Robert Kolodny of the Masters & Johnson Institute in St. Louis reported on their study of 26 women, ages 18 to 30, who smoked pot three times a week or daily for at least six months prior to the study. Thirty-one percent of the menstrual cycles of the pot-smoking women showed a shortened luteal phase, compared with 9.7 percent of the cycles of the non-pot-smoking women. A shortened luteal phase could mean that a growing embryo might not be properly nourished. The women also had decreased prolactin, a hormone important in milk production.

Another survey by Dr. Kolodny, of 500 men, ages 18 to 30, who had smoked pot for six or seven years, showed statistically significant lower rates of sexual activity and fewer orgasms. Dr. John Hall, chairman of the department of medicine at Kingston Hospital in Jamaica, reports that 20 percent of his male patients who have smoked for five or more years complain of impotence.

Research studies on animals seem to indicate that cannabinoids result in lowered sperm count and in a greater number of abnormally shaped sperm. These findings were replicated in humans using high marijuana dosages by Dr. Wylie Hembree of Columbia University College of Physicians and Surgeons. Dr. Hembree also found a statistically significant decrease in sperm mobility.

"Genetic Roulette." Since men constantly produce millions of sperm, the formation of sperm probably returns to normal when pot smoking is stopped. But the effect on women could be lasting. Dr. Akira Morishima of Columbia University says: "A human female is born with about 400,000 eggs. If *they* are injured, there's no way to repair that damage. And it has been proven, by radioactively tagging the THC, that it accumulates in the ovaries, as well as in other organs."

Dr. Morishima gave 150 "teenaged" mice very high doses of THC daily. "All the mice were mated, and were sacrificed when the fertilized egg had multiplied into four cells. In the control group, very few of the fertilized eggs were abnormal. But in

the THC group, about half the eggs were dying or had died. Of those that had lived, 20 to 30 percent looked unhealthy."

At the California Primate Research Center of the University of California at Davis, Rhesus monkeys, whose reproductive systems closely resemble those of human females, were given raisin cookies spiked with milligram amounts of THC—the monkey equivalent of a human smoking one to two joints. The monkeys received this dose every day for three years. Result: 44 percent of the pregnant "THC mothers" produced dead or dying offspring, compared to 12 percent, a normal birth loss, in the control group. Although all of the dead babies of the THC-drugged monkeys *looked* normal, a pathologist did microscopic evaluations of tissues and organs from each. He found subtle developmental abnormalities in various tissues and organ systems of the THC-exposed offspring, which were not present in the dead offspring of the undrugged mothers.

Says Dr. Ethel Sassenrath, who conducted the study: "The THC-exposed babies that survived acted differently from the others. They didn't seem to have normal 'brakes' on behavior. They showed deficits in attention. This kind of subtle behavioral difference is characteristic of marginal brain damage in early development."

An agent capable of affecting sex function, sex cells (sperm and egg) and fetus must be regarded as a source of possible congenital damage in those offspring that do survive. In 1974, Dr. Gabriel Nahas of Columbia University College of Physicians and Surgeons, a pioneer in marijuana research, discovered that THC exposure diminished the capacity of individual cells to orchestrate life according to the genetic plan built into cellular molecules. THC inhibits formation of DNA (the genetic material essential for proper cell functioning and division) in cells, resulting in cellular death and abnormality. Dr. Nahas's finding has since been replicated by other scientists from 12 research groups here and abroad. Dr. Nahas warns: "Today's pot smoker may not only be damaging his own mind and body, but may be playing genetic roulette and casting a shadow across children and grandchildren yet unborn."

Warning Signals. Some pot smokers discount findings about marijuana's possible genetic effects with the comment: "Pot smokers have perfectly healthy babies." However, as pointed out by Dr. Robert Peterson of the National Institute on Drug Abuse: "Despite thousands of years of alcohol consumption, not until recently did doctors discover that not very large quantities of alcohol can cause the fetal alcohol syndrome which results in abnormal babies. Therefore, pregnant marijuana smokers would be wise to heed the present warning signals before all the definitive findings are in."

Dr. Robert DuPont, former direc-

tor of the National Institute on Drug Abuse, puts it this way: "In all of history, no young people have ever before used marijuana regularly on a mass scale. Therefore, our youngsters are, in effect, making themselves guinea pigs in a tragic national experiment. Thus far, our research clearly suggests that we will see horrendous results."

II. ENEMY OF YOUTH

By Walter X. Lehmann, M.D.

Anyone who says "pot" is harmless will get an argument from me. It hasn't been harmless for any of the nearly 3000 young people I've worked with as a specialist in adolescent medicine. Virtually all who became addicted to hard drugs started with marijuana, which distorted their judgment and put them into the drug scene. But I've learned that marijuana by itself is bad enough—its effects too often subtle and insidious, with long-range damage difficult to calculate.

One morning the police referred to me a 15-year-old youth who, after smoking marijuana, had used the family car to tear up some neighborhood lawns. The boy was brought in by his serious, well-groomed older brother, an outstanding student and athlete. It turned out that the younger boy had never used pot before, and had been so frightened by his experience that he never wanted to use it again; he was no problem.

The problem was his older brother, though it would not be apparent for some time. Dynamic, self-possessed, he confided to me that he himself had been smoking pot, cautiously but regularly two to five times a week, enjoyed getting moderately high and had suffered no untoward effects. He felt fine, his grades remained well above average, he was captain of the soccer team and had been accepted at an Ivy League college.

How often we hear of such overachieving easy riders among our middle-class friends nowadays. I tried to warn him about the gradual, long-term changes I had seen in other outstanding young people, but nothing would dissuade him from continuing his "moderate" marijuana use. I saw him again late that summer, just before he left for college. He was slovenly, unkempt, apathetic, slow. He admitted that he had been smoking pot heavily during summer vacation. I pleaded with him to get off it, but he ignored my advice.

He was home by December, having been asked to leave college. By then, he was a typical heavy user. He

didn't care about anything except getting high every day. His parents brought him to me. Eventually he began to perceive what marijuana had done to him and decided he had to kick the habit.

It wasn't easy—it rarely is. I used to think that marijuana created only a psychological dependence, without physical addiction. But now I am persuaded otherwise. I have seen too many youngsters suffer the terrible anxiety, the sleeplessness, the sweating, the lack of appetite, the nausea and the general malaise of withdrawal. Fortunately, my patient had enough fortitude left in him to do it.

He's back in college now, doing okay. His academic performance is acceptable, if mediocre—it's the best he can do, but it isn't close to the promise he once showed. He has not regained that sharp edge, that quality of drive, spirit and capability that once made him a standout. I am not optimistic that he will ever regain it. From what I have seen, there is no question that marijuana wreaks a havoc in the body, brain and psyche that can't be entirely undone.

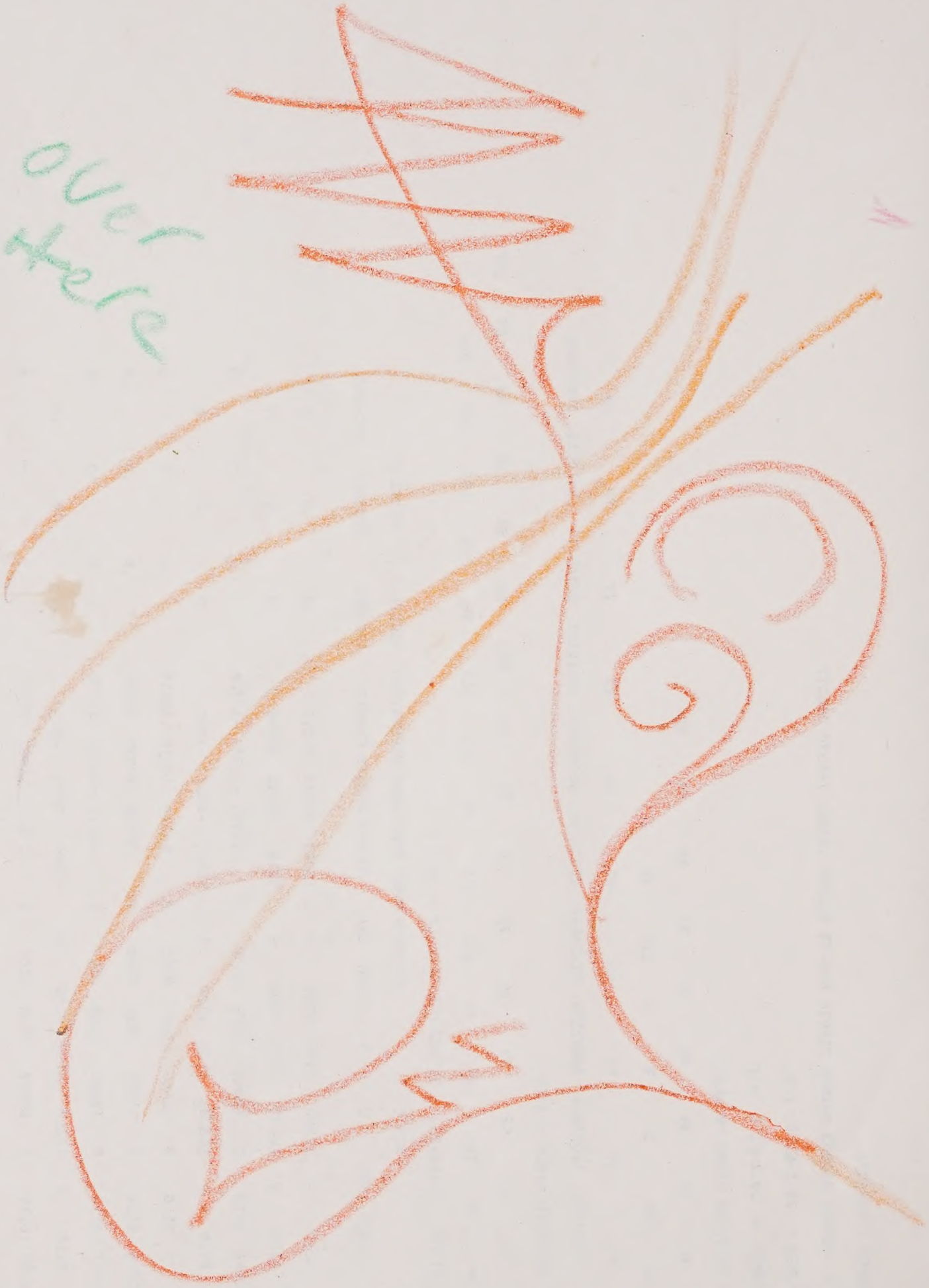
I know a lot of young people who have broken the pot habit and seem to be doing well, but who are not likely ever to realize the rich potential that once was theirs. For example, another outstanding student-athlete became my patient after marijuana had all but ruined his relationship with his parents and caused him to be dropped from sports participation. He graduated from high school only by the skin of his teeth. He felt terrible, physically and emotionally, but was determined to recover. He got off the stuff and began doing a really good job of pulling his life together.

He then decided, however, that he could handle marijuana. He would smoke it only at parties and on special occasions; it would never get out of hand again. His attitude was not untypical; recovering youngsters often develop this sense of confidence and it's hard to convince them that they haven't a chance against this stuff. I argued and pleaded to no avail. He stopped coming in. Then, in the fall, he came back. He was smoking pot regularly again, and feeling bad. He agreed that he couldn't control it, wanted to get straight again. We're working on it.

Right now, millions of our young people are marijuana users who are performing well and are very sure that they are in firm control of themselves. But as they continue using pot, a gradual deterioration will set in for many of them—in *all* phases of their lives. Grades will slip, athletic prowess will diminish and there will be trouble at home, all of this compounded by an increasing, witless apathy.

For each young pot user who goes straight, there will be many who won't. They won't know where or how to find help, and most won't want help. They will drop out, from school and life. They will simply lose themselves in that frightful marijuana-induced lethargy.

The most unfortunate ones will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126
32767  32764  0110    9   12901   5270  0100    8      9401   9401   9401          .0        .0        .0
127
32767      1  0110    9   12878   5223  0100    8     25472  25472  25472          .0        .0        .0


MAJOR
FRAME NUMBER   1166231.
MF1(0-8)
(OCTAL) =  014402 000003 001545 000016 025473 015346 107065 145600 000377
INTERNAL
TEMPERATURES =  10.1-51.2  7.5
HOUSING
TEMPERATURES  =  10.1-51.2  8.2
WORD
206 FROM SELECTED MINOR FRAMES:
M.F.
NBR.:     32     33     34     35     36     37     38     39     40
DECIMAL:
226     28    226      3      3      4    226     30    226
M.F.
NBR.:     59        60        61        62        63        64        75        77        79        84
8
BITS:     00001101  00000011  00001100  01110010  00010101  00000011  10110111  00101111  10010011  00000011
WORD
236 FROM SELECTED MINOR FRAMES:
M.F.
NBR.:     49     50     58     59     76     77     78     79     80     81     82     83     84     88     89    127
DECIMAL:
227    228    175    176    146     78    176    151     79    181    153     78    176    199    195    181
BAD
GYRO SELECTION.  MF2(1,25) = 057427 USE DEFAULT =  0 0 0
                 STA
A                     STA C            UNTRANSFORMED GYRO SUMS SEPERATION   DELTA-Y     DELTA-Z
MNF
U      V    CSTH  INT     U      V    CSTH  INT    COUNTS COUNTS COUNTS    ARC-SEC     ARC-SEC   ARC-SEC

  0
1  32767  0110    9   12850   5197  0100    8     16071  16071  16071          .0        .0        .0
  1
0      1  0110    9   12842   5248  0100    8     32142  32142  32142          .0        .0        .0
  2
32767  32766  0110    9   12869   5206  0100    8    -17323 -17323 -17323          .0        .0        .0
  3
1  32767  0110    9   12870   5221  0100    8     -1252  -1252  -1252          .0        .0        .0
  4
32766      1  0110    9   12905   5263  0100    8     14819  14819  14819          .0        .0        .0
  5
32766  32765  0110    9   12921   5215  0100    8     30890  30890  30890          .0        .0        .0
  6
32765  32767  0110    9   12891   5212  0100    8    -18575 -18575 -18575          .0        .0        .0
  7
0  32766  0110    9   12867   5197  0100    8     -2504  -2504  -2504          .0        .0        .0
  8
32765  32765  0110    9   12867   5194  0100    8     13567  13567  13567          .0        .0        .0
  9
32766  32767  0110    9   12801   5222  0100    8     29638  29638  29638          .0        .0        .0
 10
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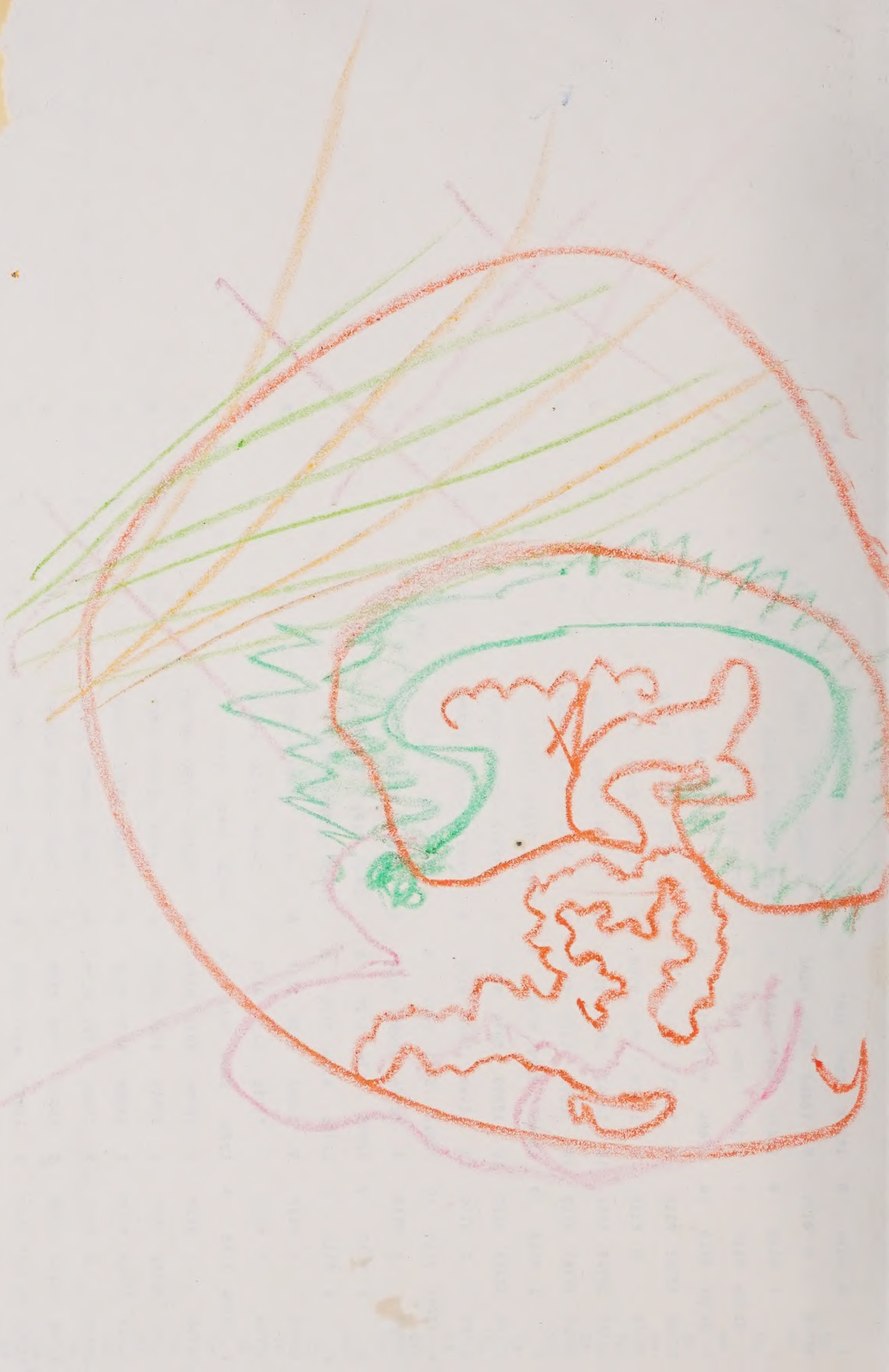

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 12
0      1  0110    9   12913   5246  0100    8     12315  12315  12315          .0         .0         .0
 13
32766      2  0110    9   12906   5200  0100    8     28386  28386  28386          .0         .0         .0
 14
1  32764  0110    9   12910   5153  0100    8    -21079 -21079 -21079          .0         .0         .0
 15
32764  32766  0110   10   12943   5136  0100    8     -5008  -5008  -5008          .0         .0         .0
 16
32767  32765  0110   10   12988   5155  0100    8     11063  11063  11063          .0         .0         .0
 17
0      0  0110   10   12982   5158  0100    8     27134  27134  27134          .0         .0         .0
 18
1      1  0110   10   12948   5149  0100    8    -22331 -22331 -22331          .0         .0         .0
 19
3  32766  0110   10   12925   5166  0100    8     -6260  -6260  -6260          .0         .0         .0
 20
32767      1  0110   10   12945   5165  0100    7      9811   9811   9811          .0         .0         .0
 21
0      1  0110    9   12932   5168  0100    7     25882  25882  25882          .0         .0         .0
 22
32766  32762  0110    9   12954   5154  0100    8    -23583 -23583 -23583          .0         .0         .0
 23
32767  32767  0110    9   12948   5151  0100    7     -7512  -7512  -7512          .0         .0         .0
 24
32764      1  0110    9   12939   5115  0100    7      8559   8559   8559          .0         .0         .0
 25
3      0  0110    9   12939   5076  0100    7     24630  24630  24630          .0         .0         .0
 26
32767      4  0110    9   12948   5025  0100    7    -24835 -24835 -24835          .0         .0         .0
 27
32767      2  0110    9   12934   4986  0100    8     -8764  -8764  -8764          .0         .0         .0
 28
32764      0  0110    9   12897   4991  0100    7      7307   7307   7307          .0         .0         .0
 29
32765      0  0110    9   12860   5037  0100    8     23378  23378  23378          .0         .0         .0
 30
0  32767  0110    9   12891   5081  0100    7    -26087 -26087 -26087          .0         .0         .0
 31
32767  32767  0110    9   12927   5084  0100    7    -10016 -10016 -10016          .0         .0         .0
 32
32765      2  0110    9   12936   5072  0100    8      6055   6055   6055          .0         .0         .0
 33
32764      0  0110    9   12974   5075  0100    8     22126  22126  22126          .0         .0         .0
 34
0      3  0110    9   12993   5066  0100    8    -27339 -27339 -27339          .0         .0         .0
 35
0  32766  0110    9   12973   5079  0100    8    -11268 -11268 -11268          .0         .0         .0
 36
32767      0  0110    9   12958   5034  0100    8      4803   4803   4803          .0         .0         .0
 37
0      3  0110    9   12916   5027  0100    8     20874  20874  20874          .0         .0         .0
 38
32765  32766  0110    9   12887   5008  0100    8    -28591 -28591 -28591          .0         .0         .0
 39
0  32767  0110    9   12897   5024  0100    8    -12520 -12520 -12520          .0         .0         .0
 40
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 41
32766      0  0110    9   12867   4976  0100    8     19622  19622  19622          .0         .0         .0
 42
0      1  0110    9   12834   4961  0100    8    -29843 -29843 -29843          .0         .0         .0
 43
1  32766  0110    9   12820   4954  0100    8    -13772 -13772 -13772          .0         .0         .0
 44
1  32766  0110   10   12806   4979  0100    8      2299   2299   2299          .0         .0         .0
 45
32766  32762  0110    9   12861   5039  0100    8     18370  18370  18370          .0         .0         .0
 46
32765      0  0110    9   12914   5048  0100    8    -31095 -31095 -31095          .0         .0         .0
 47
32762  32765  0110   10   12897   5081  0100    8    -15024 -15024 -15024          .0         .0         .0
 48
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 49
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32764  32765  0110   10   12890   5094  0100    8    -32347 -32347 -32347          .0         .0         .0
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 53
32767      1  0110    9   12926   5084  0100    8     15866  15866  15866          .0         .0         .0
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0      1  0110    9   12945   5116  0100    8     31937  31937  31937          .0         .0         .0
 55
0      0  0110    9   12906   5126  0100    8    -17528 -17528 -17528          .0         .0         .0
 56
32765      0  0110    9   12886   5105  0100    8     -1457  -1457  -1457          .0         .0         .0
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32764      1  0110    9   12915   5103  0100    8     14614  14614  14614          .0         .0         .0
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 59
32765      0  0110    9   12990   5031  0100    8    -18780 -18780 -18780          .0         .0         .0
 60
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32767  32767  0110    9   13030   4974  0100    8     13362  13362  13362          .0         .0         .0
 62
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 63
32765  32767  0110    9   13022   4946  0100    8    -20032 -20032 -20032          .0         .0         .0
 64
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2      3  0110    9   13017   4973  0100    8     12110  12110  12110          .0         .0         .0
 66
32765  32767  0110    9   13014   4985  0100    8     28181  28181  28181          .0         .0         .0
 67
32767  32766  0110    9   12994   4943  0100    8    -21284 -21284 -21284          .0         .0         .0
 68
32766  32767  0110    9   12969   4946  0100    8     -5213  -5213  -5213          .0         .0         .0
 69
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 70
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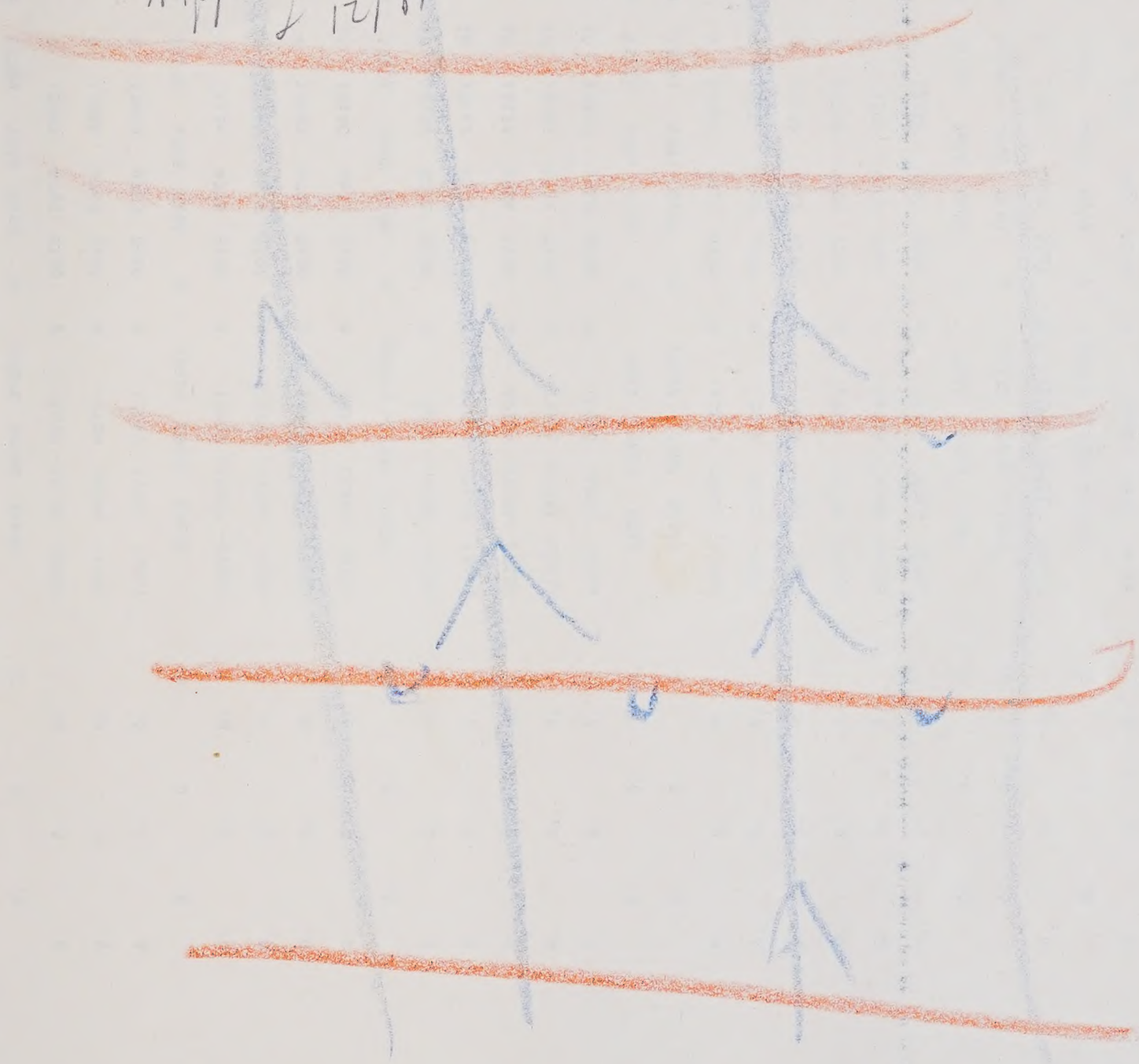
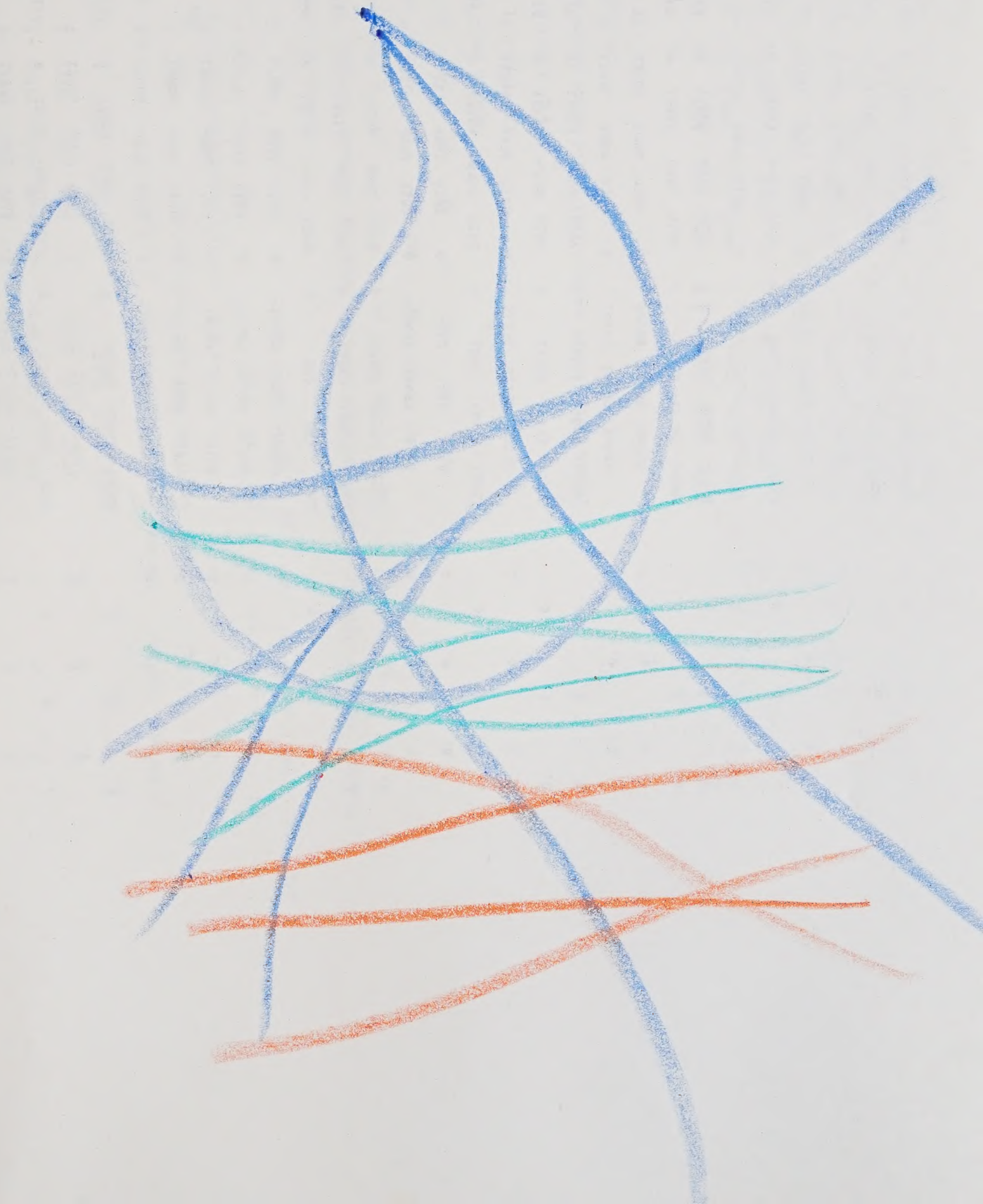
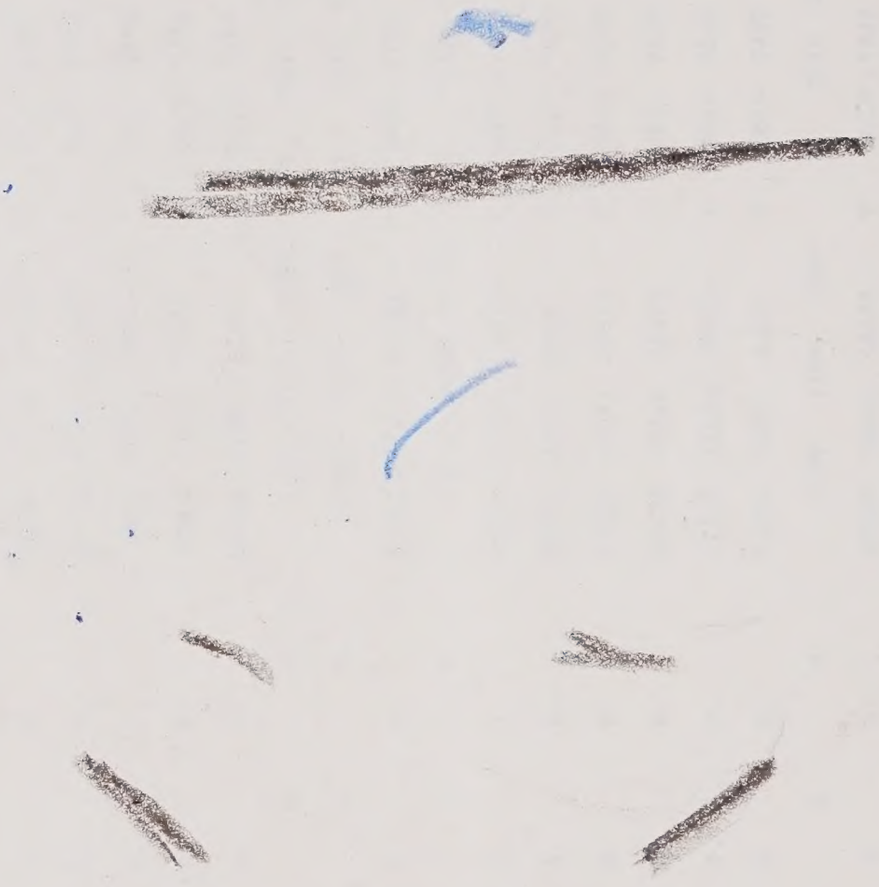
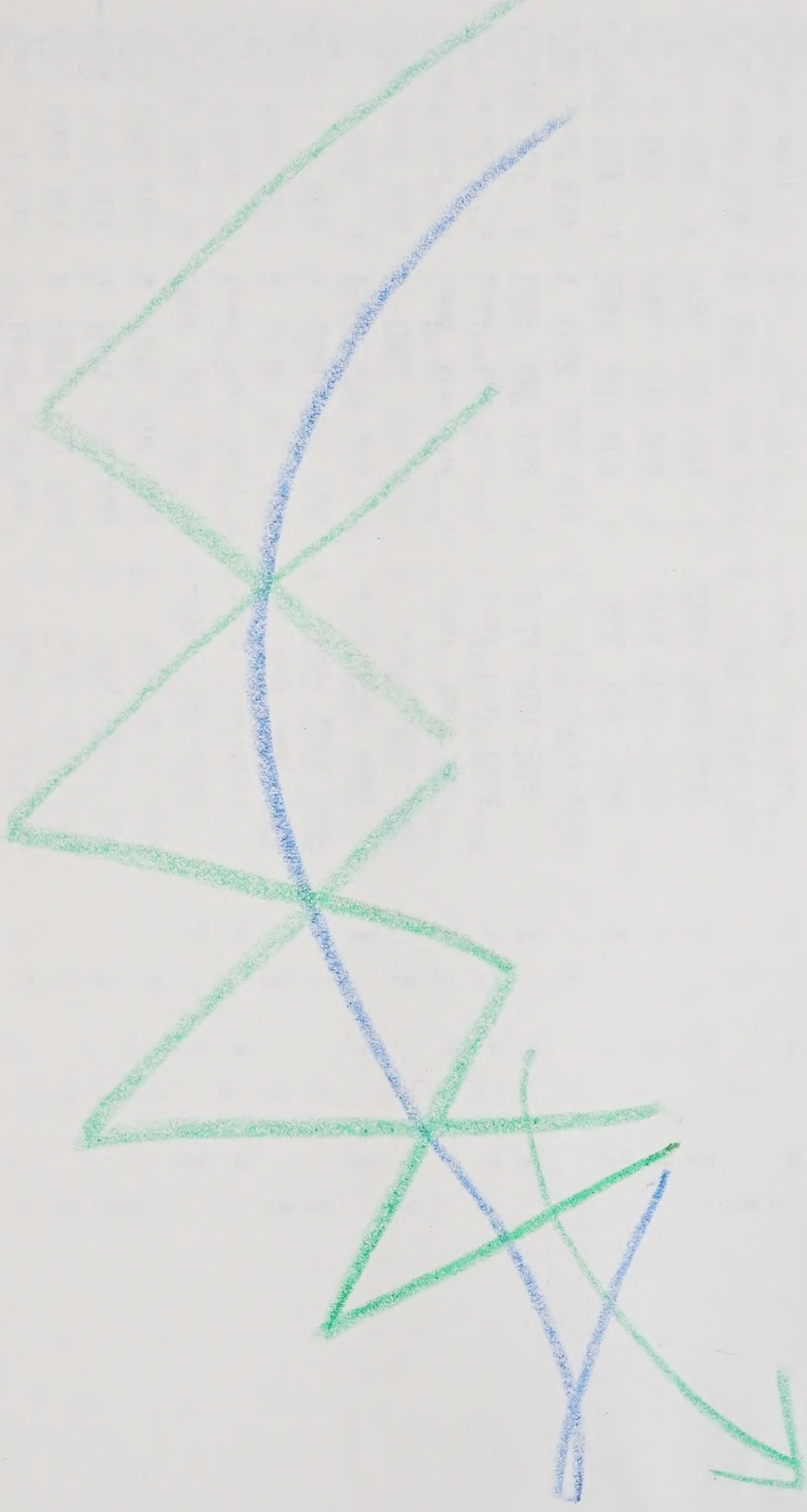
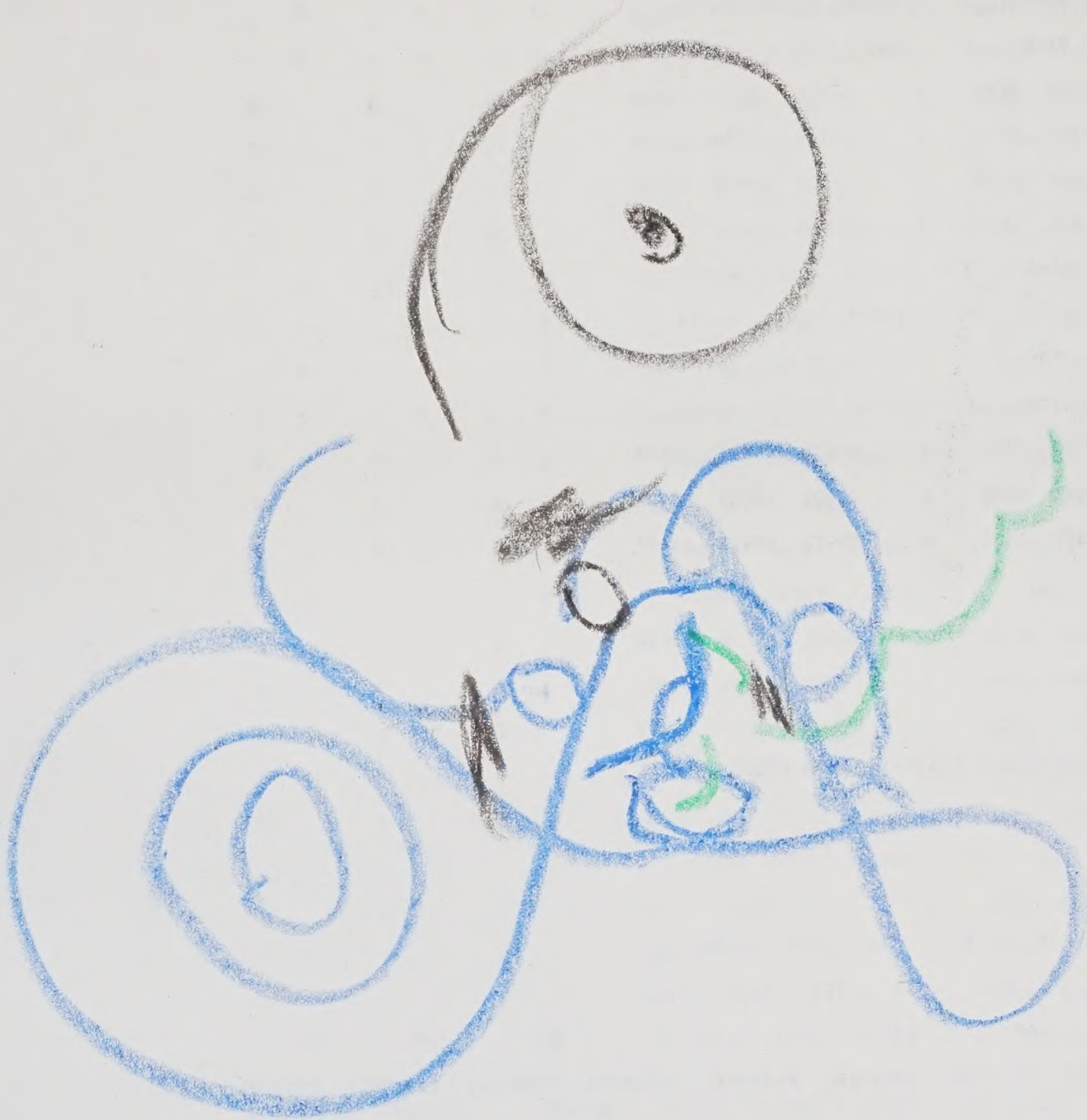
Karl + Brewster
Tripping drawings
12/81

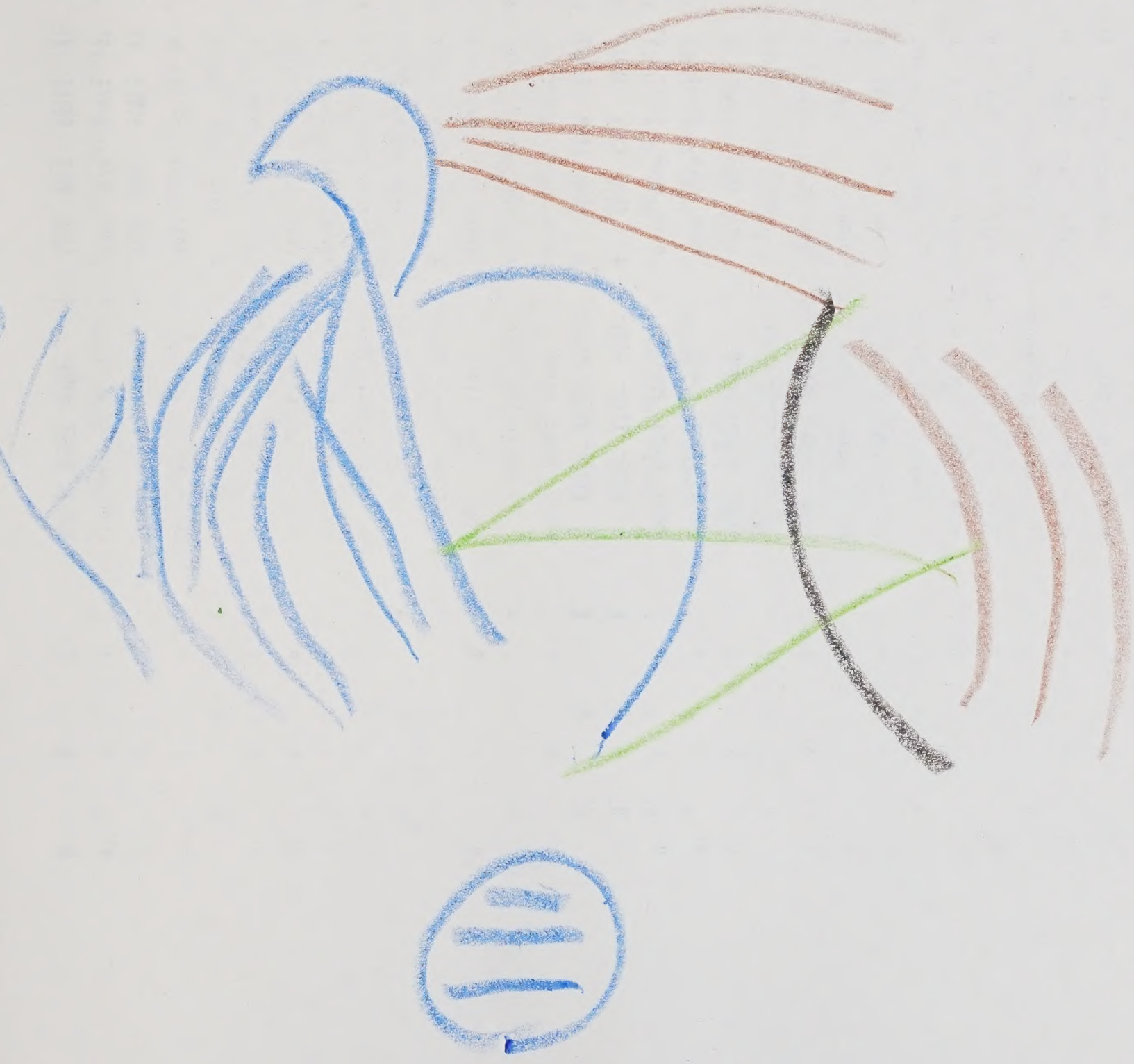


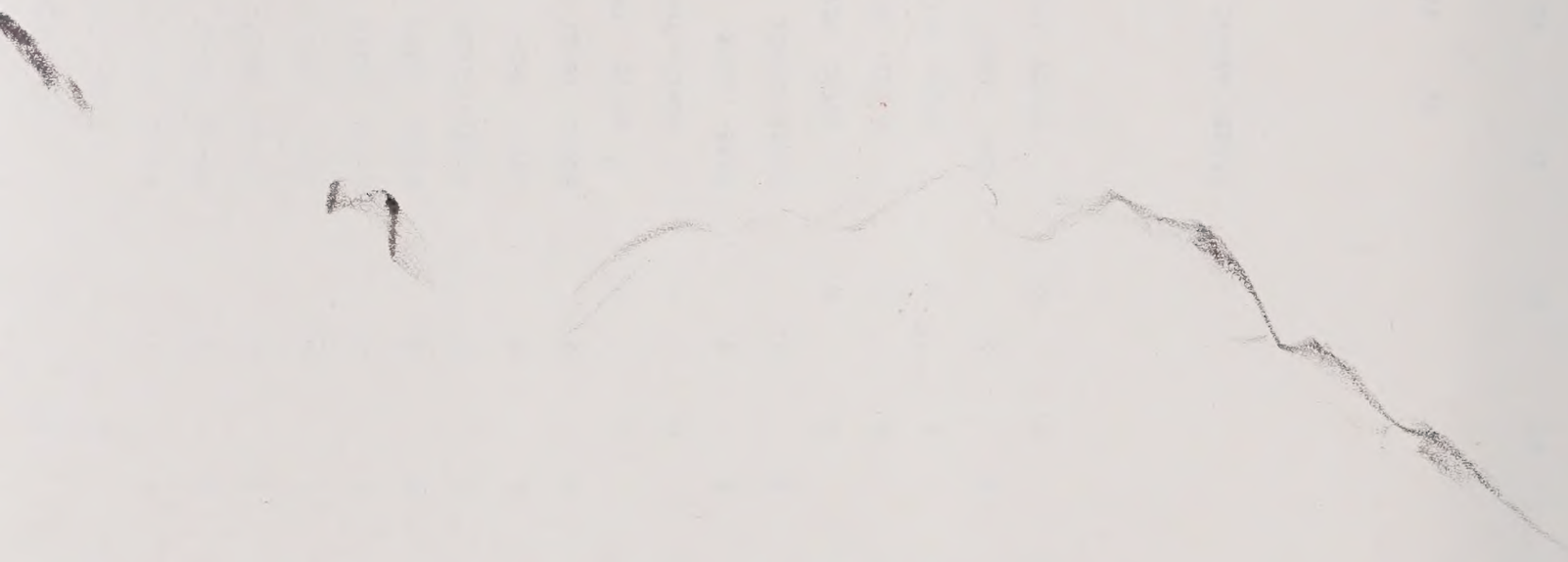


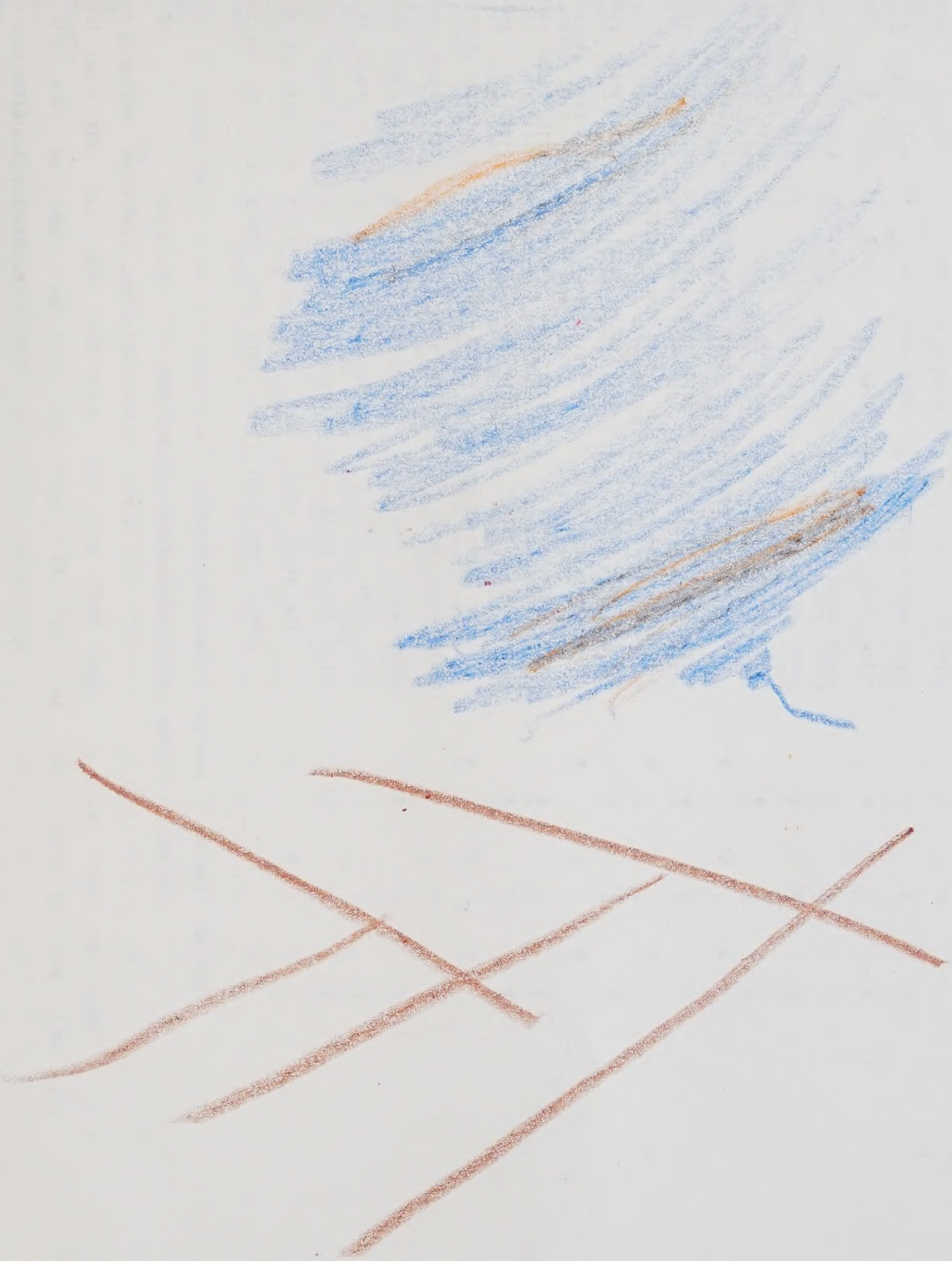


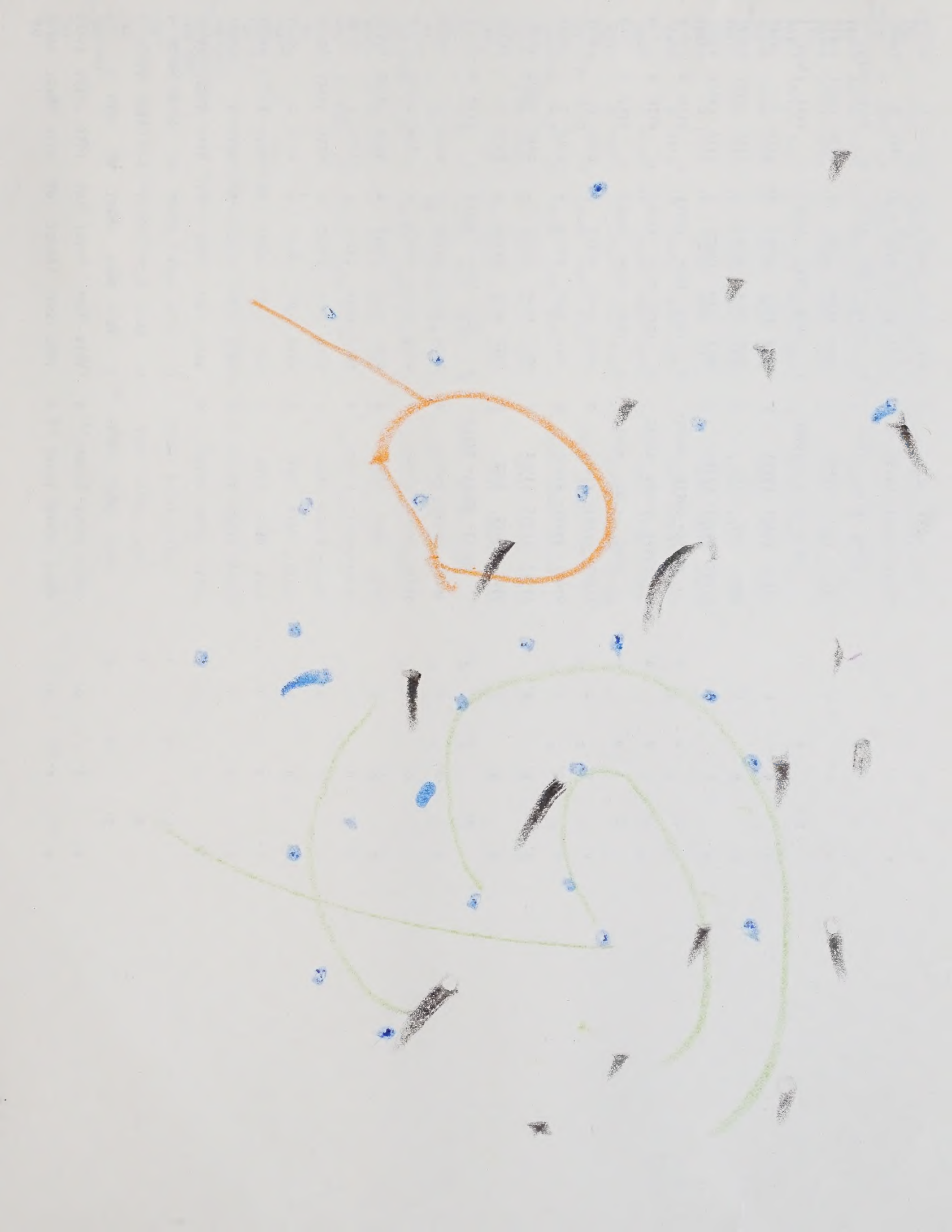












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 19
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 20
32764  32764  0110   10   13423   4786  0100    8      9811   9811   9811          .0        .0        .0
 21
32766  32766  0110   10   13424   4732  0100    8     25882  25882  25882          .0        .0        .0
 22
0       3  0110   10   13434   4707  0100    8    -23583 -23583 -23583          .0        .0        .0
 23
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 24
2  32767  0110    9   13452   4667  0100    8      8559   8559   8559          .0        .0        .0
 25
32767       0  0110   10   13419   4635  0100    8     24630  24630  24630          .0        .0        .0
 26
32764       2  0110   10   13475   4619  0100    8    -24835 -24835 -24835          .0        .0        .0
 27
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 28
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 29
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0  32766  0110    9   13548   4627  0100    8    -26087 -26087 -26087          .0        .0        .0
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 33
32766  32760  0110    9   13611   4660  0100    8     22126  22126  22126          .0        .0        .0
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32767       0  0110   10   13588   4654  0100    8    -27339 -27339 -27339          .0        .0        .0
 35
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 36
32764       0  0110   10   13504   4625  0100    8      4803   4803   4803          .0        .0        .0
 37
32766       1  0110   10   13468   4562  0100    8     20874  20874  20874          .0        .0        .0
 38
0  32765  0110   10   13478   4519  0100    8    -28591 -28591 -28591          .0        .0        .0
 39
0  32767  0110   10   13438   4493  0100    8    -12520 -12520 -12520          .0        .0        .0
 40
32763  32767  0110   10   13410   4526  0100    8      3551   3551   3551          .0        .0        .0
 41
32765       0  0110   10   13427   4489  0100    8     19622  19622  19622          .0        .0        .0
 42
32767       0  0110   10   13415   4488  0100    8    -29843 -29843 -29843          .0        .0        .0
 43
32767       3  0110   10   13383   4477  0100    8    -13772 -13772 -13772          .0        .0        .0
 44
32767  32766  0110   10   13376   4496  0100    8      2299   2299   2299          .0        .0        .0
 45
0       0  0110   10   13398   4504  0100    8     18370  18370  18370          .0        .0        .0
 46
32765       1  0110   10   13406   4506  0100    8    -31095 -31095 -31095          .0        .0        .0
 47
32767       0  0110   11   13422   4540  0100    8    -15024 -15024 -15024          .0        .0        .0
```

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32763  32765  0110   11   13413   4556  0100    8      1047   1047   1047          .0        .0        .0
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32766  32764  0110   11   13400   4611  0100    8    -32347 -32347 -32347          .0        .0        .0
 51
32765  32764  0110   11   13403   4614  0100    8    -16276 -16276 -16276          .0        .0        .0
 52
32763  32767  0110   10   13391   4698  0100    8      -205   -205   -205          .0        .0        .0
 53
32767  32764  0110   10   13374   4743  0100    8     15866  15866  15866          .0        .0        .0
 54
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32767  32767  0110    9   13382   4680  0100    8    -17528 -17528 -17528          .0        .0        .0
 56
32767  32764  0110    9   13395   4613  0100    8     -1457  -1457  -1457          .0        .0        .0
 57
32767      1  0110    9   13394   4572  0100    8     14614  14614  14614          .0        .0        .0
 58
32765      3  0110   10   13383   4614  0100    8     30685  30685  30685          .0        .0        .0
 59
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 60
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 61
32767      2  0110    9   13445   4604  0100    8     13362  13362  13362          .0        .0        .0
 62
32766  32767  0110    9   13442   4620  0100    8     29433  29433  29433          .0        .0        .0
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32767  32767  0110    9   13411   4673  0100    8    -20032 -20032 -20032          .0        .0        .0
 64
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 65
32764      0  0110   10   13399   4669  0100    8     12110  12110  12110          .0        .0        .0
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32767      2  0110   10   13353   4671  0100    8     28181  28181  28181          .0        .0        .0
 67
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 68
32764  32765  0110   10   13368   4706  0100    8     -5213  -5213  -5213          .0        .0        .0
 69
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 70
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 72
32764  32766  0110   10   13302   4685  0100    8     -6465  -6465  -6465          .0        .0        .0
 73
32765      1  0110   10   13342   4642  0100    8      9606   9606   9606          .0        .0        .0
 74
1      2  0110   10   13359   4606  0100    8     25677  25677  25677          .0        .0        .0
 75
32765  32762  0110   10   13364   4641  0100    8    -23788 -23788 -23788          .0        .0        .0
 76
32766      1  0110   10   13341   4673  0100    8     -7717  -7717  -7717          .0        .0        .0
 77
1  32767  0110   10   13301   4657  0100    8      8354   8354   8354          .0        .0        .0
```

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 79
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 80
4      1  0110   10   13240   4698  0100    8     -8969  -8969  -8969          .0        .0        .0
 81
2  32765  0110   10   13229   4730  0100    8      7102   7102   7102          .0        .0        .0
 82
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 84
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 85
32766      0  0110   10   13239   4689  0100    8      5850   5850   5850          .0        .0        .0
 86
32767      1  0110    9   13262   4659  0100    8     21921  21921  21921          .0        .0        .0
 87
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 88
32766      0  0110    9   13205   4703  0100    8    -11473 -11473 -11473          .0        .0        .0
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 90
32764  32767  0110    9   13184   4741  0100    8     20669  20669  20669          .0        .0        .0
 91
32766      2  0110    9   13179   4740  0100    8    -28796 -28796 -28796          .0        .0        .0
 92
1  32765  0110    9   13170   4682  0100    8    -12725 -12725 -12725          .0        .0        .0
 93
32764      0  0110    9   13198   4675  0100    8      3346   3346   3346          .0        .0        .0
 94
32766  32766  0110    9   13289   4694  0100    8     19417  19417  19417          .0        .0        .0
 95
32765      1  0110    9   13347   4705  0100    8    -30048 -30048 -30048          .0        .0        .0
 96
32767      0  0110    9   13388   4687  0100    8    -13977 -13977 -13977          .0        .0        .0
 97
2      1  0110    9   13452   4719  0100    8      2094   2094   2094          .0        .0        .0
 98
0      0  0110    9   13489   4784  0100    8     18165  18165  18165          .0        .0        .0
 99
0      1  0110    9   13488   4781  0100    8    -31300 -31300 -31300          .0        .0        .0
100
32766  32767  0110    9   13484   4743  0100    8    -15229 -15229 -15229          .0        .0        .0
101
32765  32767  0110    9   13466   4706  0100    8       842    842    842          .0        .0        .0
102
32767      1  0110   10   13425   4700  0100    8     16913  16913  16913          .0        .0        .0
103
1  32767  0110    9   13379   4690  0100    8    -32552 -32552 -32552          .0        .0        .0
104
32766  32767  0110    9   13393   4699  0100    8    -16481 -16481 -16481          .0        .0        .0
105
3  32764  0110   10   13410   4671  0100    8      -410   -410   -410          .0        .0        .0
106
32763      1  0110   10   13385   4695  0100    8     15661  15661  15661          .0        .0        .0
107
32767      0  0110   10   13400   4640  0100    8     31732  31732  31732          .0        .0        .0
```

```
108
0      1  0110   10   13386   4679  0100    8    -17733 -17733 -17733          .0        .0        .0
109
1      0  0110   10   13341   4653  0100    8     -1662  -1662  -1662          .0        .0        .0
110
32766  32763  0110   10   13328   4663  0100    8     14409  14409  14409          .0        .0        .0
111
32766  32767  0110   10   13331   4684  0100    8     30480  30480  30480          .0        .0        .0
112
32767  32767  0110   11   13300   4683  0100    8    -18985 -18985 -18985          .0        .0        .0
113
32766  32766  0110   10   13279   4631  0100    8     -2914  -2914  -2914          .0        .0        .0
114
32764  32767  0110   10   13249   4602  0100    8     13157  13157  13157          .0        .0        .0
115
32767      0  0110   10   13242   4598  0100    8     29228  29228  29228          .0        .0        .0
116
32766      4  0110   10   13255   4585  0100    8    -20237 -20237 -20237          .0        .0        .0
117
32764      0  0110   10   13255   4569  0100    8     -4166  -4166  -4166          .0        .0        .0
118
32765      0  0110    9   13245   4635  0100    8     11905  11905  11905          .0        .0        .0
119
0  32766  0110    9   13284   4667  0100    8     27976  27976  27976          .0        .0        .0
120
1  32766  0110    9   13292   4696  0100    8    -21489 -21489 -21489          .0        .0        .0
121
32766  32766  0110    9   13259   4652  0100    8     -5418  -5418  -5418          .0        .0        .0
122
32766      0  0110    9   13272   4621  0100    8     10653  10653  10653          .0        .0        .0
123
0      1  0110    9   13286   4625  0100    8     26724  26724  26724          .0        .0        .0
124
1      0  0110    9   13275   4633  0100    8    -22741 -22741 -22741          .0        .0        .0
125
0  32766  0110    9   13275   4630  0100    8     -6670  -6670  -6670          .0        .0        .0
126
32766  32766  0110    9   13290   4647  0100    8      9401   9401   9401          .0        .0        .0
127
1      1  0110    9   13277   4635  0100    8     25472  25472  25472          .0        .0        .0


MAJOR
FRAME NUMBER   1166234.
MF1(0-8)
(OCTAL) =  014402 000006 001545 000016 031216 015350 107065 146400 000377
INTERNAL
TEMPERATURES =  10.1-51.2  7.5
HOUSING
TEMPERATURES  =  10.1-51.2  8.2
WORD
206 FROM SELECTED MINOR FRAMES:
M.F.
NBR.:     32     33     34     35     36     37     38     39     40
DECIMAL:
226     28    226      3      3      4    226     30    226
M.F.
NBR.:     59        60        61        62        63        64        75        77        79        84
8
```

BITS: 00001101 00000011 00001100 01110010 00010101 00000011 10110111 00101111 10010011 00000011
WORD
236 FROM SELECTED MINOR FRAMES:
M.F.
NBR.: 49 50 58 59 76 77 78 79 80 81 82 83 84 88 89 127
DECIMAL:
227 228 177 179 146 78 176 151 79 181 153 78 176 199 195 180
BAD
GYRO SELECTION. MF2(1,25) = 057427 USE DEFAULT = 0 0 0

STA A MNF U	V	CSTH	INT	STA C U	V	CSTH	INT	UNTRANSFORMED GYRO SUMS COUNTS	COUNTS	COUNTS	SEPERATION ARC-SEC	DELTA-Y ARC-SEC	DELTA-Z ARC-SEC
0													
0	32766	0110	9	13256	4651	0100	8	16071	16071	16071	.0	.0	.0
1													
1	32767	0110	9	13226	4653	0100	7	32142	32142	32142	.0	.0	.0
2													
32766	32764	0110	9	13226	4677	0100	7	-17323	-17323	-17323	.0	.0	.0
3													
32766	32766	0110	9	13246	4666	0100	7	-1252	-1252	-1252	.0	.0	.0
4													
32766	32767	0110	9	13279	4657	0100	7	14819	14819	14819	.0	.0	.0
5													
32766	32767	0110	9	13305	4674	0100	7	30890	30890	30890	.0	.0	.0
6													
1	32767	0110	9	13245	4694	0100	7	-18575	-18575	-18575	.0	.0	.0
7													
32767	1	0110	9	13247	4689	0100	7	-2504	-2504	-2504	.0	.0	.0
8													
32767	32765	0110	9	13243	4675	0100	7	13567	13567	13567	.0	.0	.0
9													
0	32767	0110	9	13241	4698	0100	7	29638	29638	29638	.0	.0	.0
10													
32767	32766	0110	9	13276	4730	0100	7	-19827	-19827	-19827	.0	.0	.0
11													
1	1	0110	10	13313	4755	0100	7	-3756	-3756	-3756	.0	.0	.0
12													
32766	1	0110	10	13333	4751	0100	7	12315	12315	12315	.0	.0	.0
13													
2	32764	0110	10	13356	4732	0100	7	28386	28386	28386	.0	.0	.0
14													
32767	32767	0110	10	13366	4727	0100	7	-21079	-21079	-21079	.0	.0	.0
15													
32764	32765	0110	10	13349	4693	0100	7	-5008	-5008	-5008	.0	.0	.0
16													
32763	32764	0110	10	13370	4679	0100	7	11063	11063	11063	.0	.0	.0
17													
32766	1	0110	11	13391	4694	0100	7	27134	27134	27134	.0	.0	.0
18													
32765	32764	0110	11	13391	4688	0100	7	-22331	-22331	-22331	.0	.0	.0
19													
32767	0	0110	10	13382	4685	0100	7	-6260	-6260	-6260	.0	.0	.0
20													
32766	2	0110	10	13396	4664	0100	7	9811	9811	9811	.0	.0	.0
21													
3	2	0110	10	13376	4639	0100	7	25882	25882	25882	.0	.0	.0
22													
1	0	0110	9	13375	4612	0100	7	-23583	-23583	-23583	.0	.0	.0

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 23
32765  32766  0110    9   13397   4611  0100    7     -7512  -7512  -7512          .0         .0         .0
 24
0  32767  0110    9   13414   4619  0100    7     8559   8559   8559          .0         .0         .0
 25
1  32765  0110    9   13428   4619  0100    7     24630  24630  24630         .0         .0         .0
 26
1  32767  0110    9   13408   4611  0100    7    -24835 -24835 -24835         .0         .0         .0
 27
32765  32767  0110    9   13373   4617  0100    7     -8764  -8764  -8764          .0         .0         .0
 28
1  32767  0110    9   13331   4621  0100    7      7307   7307   7307         .0         .0         .0
 29
32766  32766  0110    9   13308   4650  0100    7     23378  23378  23378          .0         .0         .0
 30
32766  32767  0110    9   13308   4649  0100    7    -26087 -26087 -26087          .0         .0         .0
 31
32766  32766  0110    9   13279   4680  0100    7    -10016 -10016 -10016          .0         .0         .0
 32
32765  32767  0110   10   13247   4687  0100    7      6055   6055   6055          .0         .0         .0
 33
32767  32765  0110   10   13196   4668  0100    7     22126  22126  22126          .0         .0         .0
 34
32765  32765  0110   10   13203   4640  0100    7    -27339 -27339 -27339          .0         .0         .0
 35
32765  32767  0110   10   13211   4659  0100    7    -11268 -11268 -11268          .0         .0         .0
 36
0  32766  0110   10   13185   4665  0100    7      4803   4803   4803         .0         .0         .0
 37
32767      0  0110   10   13153   4682  0100    7     20874  20874  20874          .0         .0         .0
 38
32767  32767  0110   10   13103   4700  0100    7    -28591 -28591 -28591          .0         .0         .0
 39
0  32762  0110   10   13071   4708  0100    7    -12520 -12520 -12520         .0         .0         .0
 40
0  32767  0110   10   13104   4724  0100    7      3551   3551   3551         .0         .0         .0
 41
32764  32764  0110   10   13125   4720  0100    7     19622  19622  19622          .0         .0         .0
 42
1  32765  0110   10   13131   4734  0100    7    -29843 -29843 -29843          .0         .0         .0
 43
32767      0  0110   10   13123   4743  0100    7    -13772 -13772 -13772          .0         .0         .0
 44
32766      3  0110   10   13124   4737  0100    7      2299   2299   2299          .0         .0         .0
 45
32764      0  0110   10   13136   4704  0100    7     18370  18370  18370          .0         .0         .0
 46
32764      1  0110   10   13134   4709  0100    7    -31095 -31095 -31095          .0         .0         .0
 47
32767      0  0110   11   13148   4708  0100    7    -15024 -15024 -15024          .0         .0         .0
 48
1      4  0110   11   13123   4718  0100    7      1047   1047   1047         .0         .0         .0
 49
32763      0  0110   11   13134   4701  0100    7     17118  17118  17118          .0         .0         .0
 50
0  32767  0110   11   13098   4690  0100    7    -32347 -32347 -32347          .0         .0         .0
 51
0      0  0110   11   13105   4716  0100    7    -16276 -16276 -16276          .0         .0         .0
 52
32767  32764  0110   10   13129   4707  0100    7      -205   -205   -205          .0         .0         .0
```

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 53
32766  32765  0110   10   13110   4705  0100    7     15866  15866  15866          .0        .0        .0
 54
32767      1  0110   10   13091   4735  0100    7     31937  31937  31937          .0        .0        .0
 55
32766  32767  0110   10   13093   4750  0100    7    -17528 -17528 -17528          .0        .0        .0
 56
32767      1  0110    9   13070   4766  0100    7     -1457  -1457  -1457          .0        .0        .0
 57
2      1  0110    9   13050   4786  0100    7     14614  14614  14614          .0        .0        .0
 58
32763      2  0110    9   13046   4837  0100    7     30685  30685  30685          .0        .0        .0
 59
32766  32767  0110    9   13068   4834  0100    7    -18780 -18780 -18780          .0        .0        .0
 60
32767  32763  0110    9   13060   4850  0100    7     -2709  -2709  -2709          .0        .0        .0
 61
1      0  0110    9   13065   4889  0100    7     13362  13362  13362          .0        .0        .0
 62
0      1  0110    9   13085   4873  0100    7     29433  29433  29433          .0        .0        .0
 63
1      2  0110    9   13077   4853  0100    7    -20032 -20032 -20032          .0        .0        .0
 64
32767  32765  0110    9   13070   4850  0100    7     -3961  -3961  -3961          .0        .0        .0
 65
0  32766  0110    9   13071   4805  0100    7     12110  12110  12110          .0        .0        .0
 66
32766  32767  0110    9   13061   4789  0100    7     28181  28181  28181          .0        .0        .0
 67
1      0  0110    9   13073   4767  0100    7    -21284 -21284 -21284          .0        .0        .0
 68
1      0  0110    9   13031   4763  0100    7     -5213  -5213  -5213          .0        .0        .0
 69
32765  32763  0110   10   13021   4769  0100    7     10858  10858  10858          .0        .0        .0
 70
32767  32765  0110    9   13020   4790  0100    7     26929  26929  26929          .0        .0        .0
 71
32766      1  0110    9   13074   4751  0100    7    -22536 -22536 -22536          .0        .0        .0
 72
0  32767  0110   10   13074   4731  0100    7     -6465  -6465  -6465          .0        .0        .0
 73
32767      1  0110    9   13069   4723  0100    7      9606   9606   9606          .0        .0        .0
 74
32765  32766  0110   10   13072   4696  0100    7     25677  25677  25677          .0        .0        .0
 75
32766  32762  0110   10   13084   4684  0100    7    -23788 -23788 -23788          .0        .0        .0
 76
0  32764  0110   10   13099   4677  0100    7     -7717  -7717  -7717          .0        .0        .0
 77
32767  32766  0110   10   13119   4641  0100    7      8354   8354   8354          .0        .0        .0
 78
32766  32767  0110   10   13145   4624  0100    7     24425  24425  24425          .0        .0        .0
 79
1  32766  0110   10   13167   4643  0100    7    -25040 -25040 -25040          .0        .0        .0
 80
32763  32764  0110   10   13191   4702  0100    7     -8969  -8969  -8969          .0        .0        .0
 81
32767  32763  0110   10   13198   4703  0100    7      7102   7102   7102          .0        .0        .0
 82
2  32765  0110   10   13191   4729  0100    7     23173  23173  23173          .0        .0        .0
```

```
 83
1  32765  0110   10   13198   4706  0100    7    -26292 -26292 -26292          .0        .0        .0
 84
0  32767  0110   10   13173   4677  0100    7    -10221 -10221 -10221          .0        .0        .0
 85
32767      0  0110    9   13178   4668  0100    7      5850   5850   5850          .0        .0        .0
 86
32767      0  0110    9   13186   4680  0100    7     21921  21921  21921          .0        .0        .0
 87
2  32767  0110    9   13216   4695  0100    7    -27544 -27544 -27544          .0        .0        .0
 88
32767      1  0110    9   13198   4727  0100    7    -11473 -11473 -11473          .0        .0        .0
 89
32766  32763  0110    9   13217   4723  0100    7      4598   4598   4598          .0        .0        .0
 90
2  32765  0110    9   13228   4744  0100    7     20669  20669  20669          .0        .0        .0
 91
32764  32767  0110    9   13198   4740  0100    7    -28796 -28796 -28796          .0        .0        .0
 92
32766      3  0110    9   13226   4733  0100    7    -12725 -12725 -12725          .0        .0        .0
 93
32766  32765  0110    9   13220   4714  0100    7      3346   3346   3346          .0        .0        .0
 94
32765      0  0110    9   13225   4716  0100    7     19417  19417  19417          .0        .0        .0
 95
0      0  0110    9   13201   4711  0100    7    -30048 -30048 -30048          .0        .0        .0
 96
2      1  0110    9   13186   4724  0100    7    -13977 -13977 -13977          .0        .0        .0
 97
0  32767  0110    9   13180   4697  0100    7      2094   2094   2094          .0        .0        .0
 98
1  32767  0110    9   13224   4712  0100    7     18165  18165  18165          .0        .0        .0
 99
0  32766  0110    9   13232   4705  0100    7    -31300 -31300 -31300          .0        .0        .0
100
32765  32767  0110    9   13210   4682  0100    7    -15229 -15229 -15229          .0        .0        .0
101
32767  32765  0110    9   13169   4687  0100    7       842    842    842          .0        .0        .0
102
0  32765  0110    9   13202   4671  0100    7     16913  16913  16913          .0        .0        .0
103
2      0  0110    9   13235   4693  0100    7    -32552 -32552 -32552          .0        .0        .0
104
32767      1  0110    9   13239   4715  0100    7    -16481 -16481 -16481          .0        .0        .0
105
1  32767  0110    9   13271   4789  0100    7      -410   -410   -410          .0        .0        .0
106
1  32767  0110    9   13297   4787  0100    7     15661  15661  15661          .0        .0        .0
107
1  32766  0110    9   13278   4736  0100    7     31732  31732  31732          .0        .0        .0
108
0      0  0110    9   13245   4738  0100    7    -17733 -17733 -17733          .0        .0        .0
109
2  32764  0110    9   13212   4718  0100    7     -1662  -1662  -1662          .0        .0        .0
110
32765  32766  0110    9   13171   4705  0100    7     14409  14409  14409          .0        .0        .0
111
1  32767  0110   10   13166   4731  0100    7     30480  30480  30480          .0        .0        .0
112
32762      0  0110   10   13170   4732  0100    7    -18985 -18985 -18985          .0        .0        .0
```

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113
32767      0  0110   10   13180   4730  0100    7     -2914  -2914  -2914          .0        .0        .0
114
32765  32765  0110   10   13195   4731  0100    7     13157  13157  13157          .0        .0        .0
115
0  32767  0110   10   13215   4737  0100    7     29228  29228  29228          .0        .0        .0
116
1  32765  0110   10   13210   4722  0100    7    -20237 -20237 -20237          .0        .0        .0
117
32766  32767  0110    9   13215   4738  0100    7     -4166  -4166  -4166          .0        .0        .0
118
32767      0  0110    9   13191   4751  0100    7     11905  11905  11905          .0        .0        .0
119
32766  32767  0110    9   13196   4792  0100    7     27976  27976  27976          .0        .0        .0
120
32764  32766  0110    9   13202   4805  0100    7    -21489 -21489 -21489          .0        .0        .0
121
1  32766  0110    9   13185   4794  0100    7     -5418  -5418  -5418          .0        .0        .0
122
2  32765  0110    9   13200   4784  0100    7     10653  10653  10653          .0        .0        .0
123
1  32766  0110    9   13196   4786  0100    7     26724  26724  26724          .0        .0        .0
124
0  32766  0110    9   13199   4781  0100    7    -22741 -22741 -22741          .0        .0        .0
125
32766  32767  0110    9   13204   4796  0100    7     -6670  -6670  -6670          .0        .0        .0
126
32767  32766  0110    9   13234   4841  0100    6      9401   9401   9401          .0        .0        .0
127
32767      0  0110    9   13242   4879  0100    6     25472  25472  25472          .0        .0        .0


 ATTEMPT TO READ BEYOND END OF FILE

 MAJOR
 FRAME NUMBER   1166229.
 MF1(0-8)
 (OCTAL) =  014402 000001 001545 000016 023131 015344 107065 145200 063377
 INTERNAL
 TEMPERATURES =  10.1-51.2  7.5
 HOUSING
 TEMPERATURES  =  10.1-51.2  8.2
 WORD
 206 FROM SELECTED MINOR FRAMES:
 M.F.
 NBR.:     32     33     34     35     36     37     38     39     40
 DECIMAL:
 226     28    226      3      3      4    226     30    226
 M.F.
 NBR.:     59        60        61        62        63        64        75        77        79        84
 8
 BITS:     00001101  00000011  00001100  01110010  00010101  00000011  10110111  00101111  10010011  00000011
 WORD
 236 FROM SELECTED MINOR FRAMES:
 M.F.
 NBR.:     49     50     58     59     76     77     78     79     80     81     82     83     84     88     89    127
 DECIMAL:
 227    228    177    179    146     78    176    151     79    181    153     78    176    199    195    181
```

BAD
GYRO SELECTION. MF2(1,25) = 057427 USE DEFAULT = 0 0 0

A MNF	STA U	STA V	STA C CSTH	STA C INT	UNTRANSFORMED GYRO SUMS U	UNTRANSFORMED GYRO SUMS V	UNTRANSFORMED GYRO SUMS CSTH	UNTRANSFORMED GYRO SUMS INT	SEPERATION COUNTS U	SEPERATION COUNTS V	SEPERATION COUNTS CSTH	DELTA-Y ARC-SEC	DELTA-Z ARC-SEC
0													
1	32766	0110	9		13087	5054	0100	7	16071	16071	16071	.0	.0
1													
32766	32767	0110	9		13082	5013	0100	7	32142	32142	32142	.0	.0
2													
32766	32767	0110	9		13053	5024	0100	7	-17323	-17323	-17323	.0	.0
3													
32766	32767	0110	9		13035	5034	0100	7	-1252	-1252	-1252	.0	.0
4													
0	1	0110	9		13074	5070	0100	7	14819	14819	14819	.0	.0
5													
32767	32766	0110	9		13032	5089	0100	7	30890	30890	30890	.0	.0
6													
32767	0	0110	9		12995	5078	0100	7	-18575	-18575	-18575	.0	.0
7													
32767	1	0110	9		12940	5096	0100	7	-2504	-2504	-2504	.0	.0
8													
32767	1	0110	9		12951	5062	0100	7	13567	13567	13567	.0	.0
9													
32767	1	0110	9		12954	5082	0100	7	29638	29638	29638	.0	.0
10													
1	32765	0110	9		12959	5057	0100	7	-19827	-19827	-19827	.0	.0
11													
1	0	0110	9		12950	5065	0100	7	-3756	-3756	-3756	.0	.0
12													
32767	32766	0110	9		12969	5089	0100	7	12315	12315	12315	.0	.0
13													
1	0	0110	9		12967	5108	0100	7	28386	28386	28386	.0	.0
14													
32763	0	0110	9		12986	5124	0100	7	-21079	-21079	-21079	.0	.0
15													
32766	0	0110	10		13014	5107	0100	7	-5008	-5008	-5008	.0	.0
16													
32765	1	0110	10		13028	5120	0100	7	11063	11063	11063	.0	.0
17													
32765	32766	0110	10		13013	5114	0100	7	27134	27134	27134	.0	.0
18													
32765	32766	0110	10		12990	5133	0100	7	-22331	-22331	-22331	.0	.0
19													
32764	0	0110	10		12957	5167	0100	7	-6260	-6260	-6260	.0	.0
20													
0	32764	0110	9		12973	5162	0100	7	9811	9811	9811	.0	.0
21													
32767	32765	0110	9		12973	5152	0100	7	25882	25882	25882	.0	.0
22													
32766	32767	0110	9		12968	5136	0100	7	-23583	-23583	-23583	.0	.0
23													
32767	32767	0110	9		12943	5113	0100	7	-7512	-7512	-7512	.0	.0
24													
32767	32767	0110	9		12982	5036	0100	7	8559	8559	8559	.0	.0
25													
32766	0	0110	9		12971	4995	0100	7	24630	24630	24630	.0	.0
26													

```
 0  32765  0110    9   12983   5001  0100    7    -24835 -24835 -24835          .0        .0        .0
 27
 1       0  0110    9   13026   4994  0100    7     -8764  -8764  -8764          .0        .0        .0
 28
 32767       0  0110    8   13035   5020  0100    7      7307   7307   7307          .0        .0        .0
 29
 32766       1  0110    9   12998   5052  0100    7     23378  23378  23378          .0        .0        .0
 30
 32763       1  0110    9   13035   5111  0100    7    -26087 -26087 -26087          .0        .0        .0
 31
 32767  32767  0110    9   13059   5161  0100    7    -10016 -10016 -10016          .0        .0        .0
 33
 32764       0  0110    9   13049   5158  0100    7      6055   6055   6055          .0        .0        .0
 33
 32767  32765  0110    9   13020   5192  0100    7     22126  22126  22126          .0        .0        .0
 34
 0  32767  0110    9   12994   5214  0100    7    -27339 -27339 -27339          .0        .0        .0
 35
 0       3  0110    9   12988   5219  0100    7    -11268 -11268 -11268          .0        .0        .0
 36
 32765  32767  0110    9   12991   5221  0100    7      4803   4803   4803          .0        .0        .0
 37
 32767       0  0110    9   12981   5183  0100    7     20874  20874  20874          .0        .0        .0
 38
 1       0  0110    9   12972   5108  0100    7    -28591 -28591 -28591          .0        .0        .0
 39
 32766  32766  0110    9   12918   5093  0100    7    -12520 -12520 -12520          .0        .0        .0
 40
 0  32765  0110    9   12890   5090  0100    7      3551   3551   3551          .0        .0        .0
 41
 3       0  0110    9   12888   5084  0100    7     19622  19622  19622          .0        .0        .0
 42
 3  32766  0110    9   12852   5071  0100    7    -29843 -29843 -29843          .0        .0        .0
 43
 32766  32766  0110    9   12829   5064  0100    7    -13772 -13772 -13772          .0        .0        .0
 44
 0  32767  0110    9   12807   5085  0100    7      2299   2299   2299          .0        .0        .0
 45
 2       0  0110    9   12804   5086  0100    7     18370  18370  18370          .0        .0        .0
 46
 1  32765  0110    9   12823   5067  0100    7    -31095 -31095 -31095          .0        .0        .0
 47
 32765  32767  0110   10   12824   5036  0100    7    -15024 -15024 -15024          .0        .0        .0
 48
 0  32764  0110   10   12797   5047  0100    7      1047   1047   1047          .0        .0        .0
 49
 32765       1  0110   10   12795   5016  0100    7     17118  17118  17118          .0        .0        .0
 50
 32763  32767  0110   10   12805   5028  0100    7    -32347 -32347 -32347          .0        .0        .0
 55
 32767       0  0110    8   12796   5034  0100    7    -17528 -17528 -17528          .0        .0        .0
 56
 0       2  0110    8   12787   5012  0100    7     -1457  -1457  -1457          .0        .0        .0
 57
 1       1  0110    8   12787   4984  0100    7     14614  14614  14614          .0        .0        .0
 58
 32767       0  0110    8   12795   5015  0100    7     30685  30685  30685          .0        .0        .0
 59
 0       0  0110    8   12786   5055  0100    7    -18780 -18780 -18780          .0        .0        .0
 60
```

```
32765      0  0110    9   12777   5073  0100    7     -2709  -2709  -2709          .0        .0        .0
 61
1      0  0110    8   12789   5032  0100    7     13362  13362  13362          .0        .0        .0
 62
32765  32766  0110    8   12768   5031  0100    7     29433  29433  29433          .0        .0        .0
 63
0  32764  0110    9   12752   4994  0100    7    -20032 -20032 -20032          .0        .0        .0
 64
32767      0  0110    9   12761   4989  0100    7     -3961  -3961  -3961          .0        .0        .0
 65
32765  32766  0110    9   12741   5007  0100    7     12110  12110  12110          .0        .0        .0
 66
6      1  0110    9   12762   5039  0100    7     28181  28181  28181          .0        .0        .0
 67
0  32766  0110    9   12774   5003  0100    7    -21284 -21284 -21284          .0        .0        .0
 68
32765      0  0110    9   12850   5008  0100    7     -5213  -5213  -5213          .0        .0        .0
 69
32767      0  0110    9   12879   4983  0100    7     10858  10858  10858          .0        .0        .0
 70
0      0  0110    9   12896   4924  0100    7     26929  26929  26929          .0        .0        .0
 71
0      1  0110    9   12887   4856  0100    7    -22536 -22536 -22536          .0        .0        .0
 72
0  32764  0110    9   12863   4861  0100    7     -6465  -6465  -6465          .0        .0        .0
 73
32766      0  0110    9   12848   4887  0100    7      9606   9606   9606          .0        .0        .0
 74
0  32766  0110    9   12850   4851  0100    7     25677  25677  25677          .0        .0        .0
 75
32767      1  0110    9   12851   4847  0100    7    -23788 -23788 -23788          .0        .0        .0
 76
32767  32766  0110    9   12876   4851  0100    7     -7717  -7717  -7717          .0        .0        .0
 77
32766      0  0110    9   12906   4903  0100    7      8354   8354   8354          .0        .0        .0
 78
0      2  0110    9   12897   4905  0100    7     24425  24425  24425          .0        .0        .0
 79
32767      1  0110   10   12879   4924  0100    7    -25040 -25040 -25040          .0        .0        .0
 80
32766  32765  0110   10   12883   4946  0100    7     -8969  -8969  -8969          .0        .0        .0
 81
32762  32764  0110   10   12889   4904  0100    7      7102   7102   7102          .0        .0        .0
 82
0  32766  0110   10   12912   4853  0100    7     23173  23173  23173          .0        .0        .0
 83
32766  32763  0110   10   12945   4800  0100    8    -26292 -26292 -26292          .0        .0        .0
 84
32766  32765  0110   10   12935   4821  0100    8    -10221 -10221 -10221          .0        .0        .0
 85
32766  32767  0110    9   12954   4861  0100    7      5850   5850   5850          .0        .0        .0
 86
0      2  0110    9   13021   4903  0100    7     21921  21921  21921          .0        .0        .0
 87
32767      3  0110    9   12989   4946  0100    7    -27544 -27544 -27544          .0        .0        .0
 88
32765      1  0110    9   13001   4973  0100    7    -11473 -11473 -11473          .0        .0        .0
 89
0      1  0110    9   12999   4970  0100    8      4598   4598   4598          .0        .0        .0
 90
```

```
32765  32764  0110    9   12987   4988  0100    8     20669  20669  20669          .0         .0         .0
 91
32767      0  0110    9   12991   4985  0100    8    -28796 -28796 -28796          .0         .0         .0
 92
    0  32767  0110    9   12973   4982  0100    8    -12725 -12725 -12725          .0         .0         .0
 93
32766  32765  0110    9   12955   5002  0100    8      3346   3346   3346          .0         .0         .0
 94
    0  32766  0110    9   12976   4997  0100    8     19417  19417  19417          .0         .0         .0
 95
32767  32766  0110    9   13005   4981  0100    8    -30048 -30048 -30048          .0         .0         .0
 96
    2      2  0110    9   13045   4975  0100    8    -13977 -13977 -13977          .0         .0         .0
 97
    0  32765  0110    9   13085   4975  0100    8      2094   2094   2094          .0         .0         .0
 98
    2  32766  0110    9   13080   4968  0100    8     18165  18165  18165          .0         .0         .0
 99
    1      0  0110    9   13143   4933  0100    8    -31300 -31300 -31300          .0         .0         .0
100
    0  32765  0110    9   13168   4912  0100    8    -15229 -15229 -15229          .0         .0         .0
101
32767      1  0110    9   13185   4947  0100    8       842    842    842          .0         .0         .0
102
32766      0  0110    9   13211   4965  0100    8     16913  16913  16913          .0         .0         .0
103
32767      1  0110    9   13246   4951  0100    8    -32552 -32552 -32552          .0         .0         .0
104
    0      0  0110    9   13222   4932  0100    8    -16481 -16481 -16481          .0         .0         .0
105
    0  32766  0110    9   13219   4941  0100    8      -410   -410   -410          .0         .0         .0
106
32766      2  0110    9   13154   4953  0100    8     15661  15661  15661          .0         .0         .0
107
    1      0  0110    9   13140   4936  0100    8     31732  31732  31732          .0         .0         .0
108
32767      1  0110    9   13095   4908  0100    8    -17733 -17733 -17733          .0         .0         .0
109
32766  32767  0110    9   13064   4903  0100    7     -1662  -1662  -1662          .0         .0         .0
110
    1  32764  0110    9   13096   4888  0100    8     14409  14409  14409          .0         .0         .0
111
    0      0  0110   10   13129   4906  0100    8     30480  30480  30480          .0         .0         .0
112
32767  32767  0110   10   13145   4906  0100    8    -18985 -18985 -18985          .0         .0         .0
113
32763  32766  0110   10   13148   4913  0100    8     -2914  -2914  -2914          .0         .0         .0
114
    0  32766  0110   10   13165   4920  0100    8     13157  13157  13157          .0         .0         .0
115
32764      0  0110   10   13153   4939  0100    8     29228  29228  29228          .0         .0         .0
116
    2  32765  0110   10   13133   4963  0100    8    -20237 -20237 -20237          .0         .0         .0
117
    0  32765  0110    9   13145   4956  0100    8     -4166  -4166  -4166          .0         .0         .0
118
32767  32767  0110    9   13145   4958  0100    8     11905  11905  11905          .0         .0         .0
119
32766      2  0110    9   13126   4964  0100    8     27976  27976  27976          .0         .0         .0
120
```

```
32767  32764  0110    9   13085   4972  0100    8    -21489 -21489 -21489          .0        .0        .0
121
0      0  0110    9   13067   4970  0100    8     -5418  -5418  -5418          .0        .0        .0
122
0  32765  0110    9   13088   4936  0100    8     10653  10653  10653          .0        .0        .0
123
32766  32766  0110    9   13140   4936  0100    8     26724  26724  26724          .0        .0        .0
124
0      1  0110    9   13147   4972  0100    8    -22741 -22741 -22741          .0        .0        .0
125
0  32766  0110    9   13148   5006  0100    8     -6670  -6670  -6670          .0        .0        .0
126
32767  32767  0110    9   13134   4946  0100    8      9401   9401   9401          .0        .0        .0
127
32767  32767  0110    9   13119   4878  0100    8     25472  25472  25472          .0        .0        .0


MAJOR
FRAME NUMBER   1166230.
MF1(0-8)
(OCTAL) =  014402 000002 001545 000016 024312 015345 107065 145400 000377
INTERNAL
TEMPERATURES =  10.1-51.2  7.5
HOUSING
TEMPERATURES  =  10.1-51.2  8.2
WORD
206 FROM SELECTED MINOR FRAMES:
M.F.
NBR.:     32     33     34     35     36     37     38     39     40
DECIMAL:
226     28    226      3      3      4    226     30    226
M.F.
NBR.:     59        60        61        62        63        64        75        77        79        84
8
BITS:     00001101  00000011  00001100  01110010  00010101  00000011  10110111  00101111  10010011  00000011
WORD
236 FROM SELECTED MINOR FRAMES:
M.F.
NBR.:     49     50     58     59     76     77     78     79     80     81     82     83     84     88     89    127
DECIMAL:
227    228    176    177    146     78    176    151     79    181    153     78    176    199    195    181
BAD
GYRO SELECTION.  MF2(1,25) = 057427 USE DEFAULT =  0 0 0
                  STA
A                       STA C            UNTRANSFORMED GYRO SUMS SEPERATION   DELTA-Y     DELTA-Z
MNF
U      V    CSTH  INT     U      V    CSTH  INT    COUNTS COUNTS COUNTS    ARC-SEC     ARC-SEC   ARC-SEC

  0
32766  32767  0110    9   13146   4809  0100    8     16071  16071  16071          .0        .0        .0
  1
0  32765  0110    9   13160   4821  0100    8     32142  32142  32142          .0        .0        .0
  2
0      1  0110    9   13132   4794  0100    8    -17323 -17323 -17323          .0        .0        .0
  3
4  32766  0110    9   13076   4748  0100    8     -1252  -1252  -1252          .0        .0        .0
  4
32767  32766  0110    9   13026   4722  0100    8     14819  14819  14819          .0        .0        .0
  5
```

```
0      1  0110    9   13004   4718  0100    8     30890  30890  30890          .0         .0         .0
  6
32767  32765  0110    9   13045   4745  0100    8    -18575 -18575 -18575          .0         .0         .0
  7
32765      0  0110    9   13058   4769  0100    8     -2504  -2504  -2504          .0         .0         .0
  8
32767  32767  0110    9   13050   4763  0100    8     13567  13567  13567          .0         .0         .0
  9
0  32766  0110    9   13076   4755  0100    8     29638  29638  29638          .0         .0         .0
 10
32766      1  0110    9   13136   4775  0100    8    -19827 -19827 -19827          .0         .0         .0
 11
32764  32766  0110    9   13169   4813  0100    8     -3756  -3756  -3756          .0         .0         .0
 12
32765  32767  0110    9   13091   4796  0100    8     12315  12315  12315          .0         .0         .0
 13
32767      1  0110   10   13146   4839  0100    8     28386  28386  28386          .0         .0         .0
 14
1      2  0110    9   13153   4860  0100    8    -21079 -21079 -21079          .0         .0         .0
 15
32764  32767  0110   10   13154   4872  0100    8     -5008  -5008  -5008          .0         .0         .0
 16
32765  32762  0110   10   13167   4897  0100    8     11063  11063  11063          .0         .0         .0
 17
32767  32767  0110   10   13172   4956  0100    8     27134  27134  27134          .0         .0         .0
 18
32765  32764  0110   10   13203   4931  0100    8    -22331 -22331 -22331          .0         .0         .0
 19
32762  32765  0110   10   13225   4910  0100    8     -6260  -6260  -6260          .0         .0         .0
 20
0  32766  0110   10   13235   4904  0100    8      9811   9811   9811          .0         .0         .0
 21
2  32766  0110    9   13251   4908  0100    8     25882  25882  25882          .0         .0         .0
 22
32766      1  0110    9   13252   4912  0100    8    -23583 -23583 -23583          .0         .0         .0
 23
32767      0  0110    9   13258   4880  0100    8     -7512  -7512  -7512          .0         .0         .0
 24
32764      0  0110    9   13232   4917  0100    8      8559   8559   8559          .0         .0         .0
 25
32766  32766  0110    9   13250   4904  0100    8     24630  24630  24630          .0         .0         .0
 26
32767  32766  0110    9   13251   4865  0100    8    -24835 -24835 -24835          .0         .0         .0
 27
32766      1  0110    9   13253   4857  0100    8     -8764  -8764  -8764          .0         .0         .0
 28
0  32766  0110    9   13231   4862  0100    8      7307   7307   7307          .0         .0         .0
 29
0      0  0110    9   13205   4847  0100    8     23378  23378  23378          .0         .0         .0
 30
32766      1  0110    9   13212   4843  0100    8    -26087 -26087 -26087          .0         .0         .0
 31
0  32767  0110    9   13219   4874  0100    7    -10016 -10016 -10016          .0         .0         .0
 32
32767  32767  0110    9   13242   4839  0100    8      6055   6055   6055          .0         .0         .0
 33
2  32766  0110    9   13249   4869  0100    8     22126  22126  22126          .0         .0         .0
 34
32767      2  0110    9   13245   4847  0100    8    -27339 -27339 -27339          .0         .0         .0
 35
```

IN CASE OF MACE (or tear-gas attack)

Several types of teargas may be used against us. Gas may be dispensed by helicopter, exploding/burning grenades or canisters (handthrownor launched by shot gun). It can be deployed in a continuous emission by a "pepper fogger" or in spray form (as in chemical mace) discharged from teargas batons, pen-type teargas projectors and miniature tear – gas pistols.

Sounds great, huh? The best defenses against gas tactics are a gas mask, a lemon-moistened bandana [see later in this section] and the following information.

Types of teargas agents:

CN (CHLORACETOPHENONE)

This is the preferred type of teargas now in use by "the authorities." It has an odor similar to apple blossoms and causes a burning sensation on the skin and mucous areas of the mouth and nose. CN causes intense tearing and irritation to the eyes. All of these effects usually disappear in a few minutes after the individual is removed from the area of gas concentration. Treatment is simple: exposure to clean air currents, washing the face and eyes in plain water or bathing them in a mild salt water solution. In open field conditions, where CN is normally used, there is little need to be concerned about damaging or serious toxic after effects from exposure to gas.

CS (ORTHOCHLOROBENZAMALONITRILE

This is much more potent than CN. Treatment for exposure to CS is the same as for CN and its non-toxic after effects disappear in a similar manner. CS is normally used when the authorities feel the

need for a stronger show of force after the milder CN has failed.

DM (DIPHENYLAMINACHLORASINE)

This is also known as "sickening" or "vomiting" gas. It is usually used in conjunction with CN. DM requires a period of time to take effect, while the CN can simultaneously produce a more immediate reaction. Nausea gas is a clear, odorless and colorless gas. It is dispensed in small canisters. When it lands it lets off a small puff of smoke and then there is nothing. You may think it's a dud. It isn't! The effects of it are intense vomiting and intense diarrhea, which can cause rectal bleeding. (Eating beforehand helps protect the stomach during vomiting. Where's that deli?) It upsets your judgement, causes asthma to become worse. DON'T USE A GAS MASK AGAINST NAUSEA GAS! You can choke on your own vomit if wearing a mask, and the gas is absorbed through the skin so you don't have to inhale it to be affected by it. There is no treatment, just get out of the area as quickly as possible if you see such a canister. Only foods in sealed metal containers are safe from contamination. TO OUR KNOWLEDGE THIS GAS HAS NEVER BEEN USED AGAINST CIVILIANS IN THIS COUNTRY. The fact that authorities are willing to use gas of any kind against people excercising their right to free speech and protest is all the more reason to demonstrate at this convention, where the whole world will be watching, even if most of them will be watching Gilligan's Island on cable tv.]

All of the above tear gas agents can be either in a persistent or a non-persistent form. The non-persistent forms, which include all the liquid tear – gas generated by burning or combustion-type grenade, remain effective in the open for a period of about ten minutes or less. Persistent agents, in the form of micropulverized tear – gas powder, remain effective in excess of ten minutes. Micropulverized tear – gas powder will settle to the ground and become reactivated when the air is stirred up by walking over the area.

⚜⚜⚜⚜⚜ NON-COOPERATION

One way of refusing to participate in arrest and detention is by going limp. A decision to go limp is a decision to approach the arrest situation with peaceful resistance and may involve discomfort and strained communication between demonstrators and arresting police officers, largely because one or two people are being dragged along the ground and one is struggling to carry the other.

We are forcing the police to either join us or carry us away. We frequentlv find ourselves being dragged by an angry cop who's unsympathetic to our claims that we're acting as much on her or his behalf as on our own. This is an uncomfortable dilemna that runs throughout every noncooperation and can only be eased by sensitive discussion with sincerity and conviction on our part about our motives and goals

Some demonstrators refuse to cooperate partially or wholly with court procedures. They refuse to: enter a plea; retain or accept a lawyer; stand up in court; speak to the judge as a symbol of court authority, instead speaking to the judge as a fellow human being; take the stand or question witness. They may make a speech to those assembled in the courtroom or simply lie or sit on the floor if they are carried in, or attempt to leave if not forcibly restrained. The penalties for such noncooperation can be severe. Many judges consider such action a personal affront as well as an insult to the court. Others overlook such conduct or try to communicate with the demonstrators.

Physical noncooperation may be sustained through the booking process and subsequent court appearances. It may continue through the entire time of one's detention: refusal to walk; to eat; to clean oneself and surroundings. It may even lead prison officials to force feed and diaper the inmate.

Another form of noncooperation is fasting: taking no food or liquid except water or fruit juice. While fasting can be uncomfortable and eventually risky, abstaining from food totally can be extremely dangerous. Five or six days is the longest a human can go without liquid before incurring brain damage and serious dehydration.

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TACTICS

Usually authorities closely watch persons who are "water fasting" and take steps to hospitalize them before serious consequences occur. No demonstrator can ever count on such attention and should be prepared to give up the fast or perhaps be allowed to die.

There are other forms of noncooperation and reasons for practicing each. Refusal to give one's name springs from a desire to resist and confound a system that assigns criminal records to people, categorizes them, spies on them and punishes organizers and repeat offenders.

Many nonviolent activists don't hide their identities. They may still noncooperate by: refusing to reveal an address or refusing to return for trial. This increases the burden on the courts to quickly deal with us and enhances our solidarity as people working together filling the jails.

Many activists also choose to resist the codification of people by social security numbers. The questions we are asked about background and employment are means to facilitate both their processing of us and their preparation of files on us.

Noncooperation is difficult. It can be frustrating, time consuming and even painful. Noncooperators must be careful not to pressure others into joining them. Anyone who tries to noncooperate must feel flexible enough to give it up if it becomes too much to handle.

Noncooperation can be very powerful as a response to unjust demands by guards. It feels natural and effective at such times.

It is likely that noncooperators will be subject to intimidation and threats. For this reason, it's important to prepare ourselves for this in advance rather than planning to change our minds about noncooperating under duress. Successful intimidation from guards will only encourage them to treat the other noncooperators more harshly.

RESPONSES TO TEAR GAS

Although in past demonstrations individuals have successfully thrown back tear – gas canisters, the prudence of this tactic can be questioned. Burning type tear – gas canisters may become hot enough to burn if touched. Blast or burning type grenades may shatter when the detonating charge goes off, creating the the danger of injury from flying shrapnel. It seems more prudent to avoid the effects of the gas by swiftly moving out of the direction of the gas flow. Tear – gas will flow in the direction of the wind and also tends to flow downhill.

Attempts to avoid the gas cloud may be hindered by the use of invisible teargas agents now available to the police.

In all cases, the intent of the police using gas is *to create panic among protestors,* in order to disperse and destroy our collective efforts. So, above all, *DON'T PANIC!* Remember that in large crowds, running can be dangerous or cause panic. Move from gassed areas in large groups to a safe distance upwind. When gas has subsided, continue to move forward in a large group. Flags can be used to indicate the wind direction when invisible gases are used.

continued next page

Skin should be protected from exposure to gas. A long – sleeved shirt or turtleneck sweater is hardly the thing to wear on a hot summer day, but keep in mind that you do want to keep as much of your skin covered as possible; wear long pants and socks.

A good pair of snug – fitting goggles or diving mask should be worn to protect the eyes. All holes and air vents must be taped closed to prevent gas from leaking through.

Gas masks should have *activated* charcoal filters to be effective. (Activated charcoal filters lose potency when they get old; new filters should be used.) **Otherwise, a do-it-yourself gas mask may be used. A simple design consists of a cloth handkerchief soaked in lemon juice or vinegar. (Lemon juice and vinegar act to neutralize tear – gas.) Lemon juice may be carried in a plastic squeeze-bottle and squirted on mask periodically.**

Skin not otherwise protected may be covered with the following mixture: mix 8-10 eggs with one cup of water and a tablespoon of baking soda. Beat well. Spread mixture on face and other exposed body areas. Chocolate frosting is optional.

MACE

Chemical mace is packaged in a projector or streamer that looks like a black or olive drab spray can. It is dispensed by aerosol and is designed for use against an individual. It delivers an irritating substance to a localized area and maintains the activity of the irritant for a long period of time. A person who is maced feels an immediate burning or stinging in the exposed area, usually the face. Incapacitation from pain and involuntary closing of the eyes follow; you may have difficulty breathing. For treatment see FIRST AID list for gases.

AREA AFFECTED	*SYMPTOMS*	*FIRST AID*
general		*Remove affected person from the contaminated area to an open, up wind position. Major discomfort should disappear within 15 or 20 minutes.*
eyes	*Burning sensation, heavy flow of tears, involuntary closing of eyes*	*Keep eyes open facing wind. Do not rub eyes. Tearing helps clear the eyes. If particles of the agent [gas] are lodged in the eyes, wash out with lots of cool water, 5 percent sodium bisulfite solution, or boric acid solution. Tears can be blotted away.*
skin	*Stinging or burning sensation, particularly on moist or sweaty areas. Redness. Blisters from very heavy concentrations.*	*Sit and remain quiet to reduce sweating. Expose affected areas to uncontaminated air. Gross contamination can be relieved by flushing with water, or the above mentioned solutions, for at least 10 minutes. Remove wet clothing. Shower &/or change clothing.*
nose	*Irritation, burning sensation. Nasal discharge.*	*Breathe normally. Blow nose to remove discharge. Nose drops should help if discomfort continues.*
chest	*Irritation, burning sensation. Coughing, feeling of suffocation. Tightness in chest, often accompanied by a feeling of panic.*	*The victim should relax and keep calm. Talking reassuringly to the affected person will help to relieve their discomfort & prevent panic.*

FIRST AID FOR MACE:
Flush eyes & skin with large amounts of water as soon as possible. Irrigate your eyes with a boric acid solution. Change clothing as mace adheres to clothing. Do not rub area. If severely maced, and/or maced from closer than 2½ feet, seek qualified medical help.

CONCERNING MACE AND ALL GASES!!!!
For severe or prolonged effects, complications and contamination of wounds, obtain medical aid as soon as possible.

LEGAL:

The police may separate us from each other, breaking up affinity groups and possibly isolating individuals. In order to maintain our spirits and effectiveness, we must develop an ability to deal with the legal system, while trusting in the solidarity of other demonstrators. Solidarity is, in reality, more a state of mind that unites us through a long struggle than a specific course of action that everyone follows. Solidarity does not demand that everyone make the same choice in every situation. It is an internal force within each of us and among us as a group. It is our committment to one another and to our common cause. It is our dedication to support one another and to pursue our common goals at all times, in every situation. Solidarity cannot be broken by courts, jails or other external forces. If we hold fast to it, it is ours.

ARREST PROCEDURE

Police brass will usually order you to leave the area and give you a reasonable opportunity to disperse. They are then supposed to tell you that you are under arrest and what you are being charged with. They are not required to read you your Miranda rights unless they begin to question you, or Carmen Miranda happens to calypso past while you're being arrested. If they do try question you, you have the right to remain silent. Use it. Tell them you won't talk.They can talk to your lawyer.Record the name and badge number of your arresting officer. You may be photographed at arrest; if not at this time, you will be photographed at booking.

BOOKING

You will be asked your name, address and age. You will be photographed, if not done earlier. If you have been charged with a misdemeanor, you will be fingerprinted. You may be strip searched at this time.

The amount of information you provide is a personal choice depending on your willingness to cooperate. The police will find it difficult to release you if they don't know who you are.

Our sense is that they will *want* to release you. New York City does not have facilities or person power to handle thousands or arrestees for long periods of time. Their objective is to identify you, be reasonably satisfied that you will return for your arraignment, and let you go with as little hassle as possible. Remember that New York City police are accustomed to handling protesters. They are fairly easygoing and will not escalate confrontation if they can avoid it. There is also a double standard at work in the treatment of predominantly "middle class" demonstrators. *Note:* We have seen that large numbers of noncooperators have a powerful impact on legal procedings by disrupting business as usual and dramatizing further our conviction that our actions are justified and necessary and do not warrant criminal processing.

CHARGES

If you are charged with a violation, you will be issued a summons telling you when to appear in the Summons part of Criminal Court for your arraignment. If you are charged with a misdemeanor, the police will either issue a Desk Appearance Ticket [DAT] or set bail.

The DAT constitutes a release on your own recognizance subject to an implied promise that you will return on the appointed date for your arraignment. It must be signed by you and contain all the information requested [name, address, age]. The police may set bail. This is a specified sum of money put up by the defendant as a guarantee of sorts that he or she will return for arraignment. The money is forfeited if one does not appear and a bench warrant is issued. The police's estimate of the likelihood of your returning will be used as the basis for deciding whether to release you on your own recognizance (OR). This is on a point system, with a minimum number of points to qualify.

Out-of-state demonstrators should have the name, address, and phone number of a local [New York City] person to be given to the police as a reference so police can verify who you are. Giving a NY address as your own is even better. Tell them you are married have been employed for the last 14 years. [The local contact person should be informed that you are using him/her as your reference, so they will be reachable.]

Noncooperators will be held in jail until brought before a judge for arraignment. Although New York City holds day and night arraignments, there is *always* a backlog. Our numbers will aggravate that backlog enormously. If you are going to noncooperate, be prepared to spend at least 36 hours in jail prior to your arraignment. It will probably be less, but be prepared for that duration. You will not have control over how quickly your case is called. Lawyers do not have the power to move your case up. Do not count on being kept or transported with your fellow protesters. You can expect to be mixed with the general prison population and separated by sex and age.

ARRAIGNMENT

The arraignment is an appearance before a judge where a plea is entered. You are entitled to counsel.

ACD

It is possible that before you are asked to plead, you will be offered an ACD. An ACD can only be given by a judge if the DA agrees not to prosecute and you agree to accept it. It means your case is adjourned for 6 months and automatically dropped at that time provided you are not arrested again during that time. If you are arrested, and the New York City courts *know* about it, this charge may be reactivated and you may be contacted by the DA and given a trial date.

JAIL

Standard procedure in Manhattan (Manhattan is in New York *County*) is to send people to the city jail at Rikers Island or 100 Center Street for pre-arraignment or pre-trial detention. It is *possible* that some other arrangements would be made because of our large numbers—but we have no present information on that. You should be prepared to go to Rikers. Baloney on raisin.

TRIALS

You are required to appear in court on the set trial date. You effectively promised to return when you paid bail or accepted release on your own recognizance.

Failure to appear will lead to a bench warrant being issued for your arrest and forfeiture of your bond (if you put up bond instead of bail). It is extremely important that people handle all the particulars of their trial themselves, if they choose to go ahead with trials. All too often we have seen that some demonstrators expect somebody else to follow up on their legal matters for them.

POSSIBLE CHARGES AND PENALTIES

The scenario for our protest at the 1980 Democratic Convention protest at the Garden involves, at the very least, sitting in and blocking access on a public thoroughfare. There are a number of offenses with which protesters may be charged. There is no jury trial for a violation.

[1] DISORDERLY CONDUCT
A violation

A person may be found guilty of disorderly conduct when, with intent to cause public inconvenience, annoyance or alarm, or recklessly creating a risk thereof, he/she:

obstructs vehicular or pedestrial traffic;

congregates with others in a public place and refuses to comply with a lawful order of the police to disperse;

creates a hazardous or physically offensive condition by any act which serves no legitimate purpose [this is a dragnet provision].

An officer may arrest without a warrant if acts are committed in h/h presence.

[2] TRESPASS
a violation

A person may be guilty of [simple] trespass if he/she knowingly enters or remains unlawfully in or upon premises.

[3] CRIMINAL TRESPASS IN THE 3rd DEGREE
a "B" misdemeanor

Same as above, if premises constitute real property that are enclosed in a manner designed to exclude intruders or if premises constitute a building.

PLEASE NOTE: "Enter" can be with a part of the body. One can enter lawfully but "remain" unlawfully. "Unlawfully" means without privilege or license to be there. After a lawful order to leave, one loses what privilege or license one might have had to be there in the first place. A "lawful order" to leave may be given by the owner or any authorized person [police, manager, security guard, etc.]. "Building" may include enclosures and entrances which are part of the place of business.]

[4] OBSTRUCTING GOVERNMENTAL ADMINISTRATION
an "A" misdemeanor

One may be found guilty of O.G.A. if one intentionally obstructs, impairs or prevents the administration of law or other governmental function or prevents or attempts to prevent a public servant from performing an official function by means of intimidation, physical force or interference or any independently unlawful act.

[5] RESISTING ARREST
an "A" *misdemeanor*

A person may be guilty of resisting arrest if one intentionally prevents or attempts to prevent a police officer from effecting an authorized arrest of oneself or another person.

The conduct need not be force or violence. Passive resistance or going limp has been sufficient where such conduct—refusal to act as directed—delayed each defendant's own arrest and the arrest of others.

Going limp may escalate your offense [you might be charged with resisting arrest] and may entitle you to a jury trial. But the City could *drop* those charges so that they won't have to give us jury trials. Try to keep all of this in mind when deciding what you are going to do.

Do not try to escape unless you can actually pull it off. To break a grip on your wrist turn against the officer's thumb. Resisting Arrest charges can usually be plea bargained to disorderly conduct with a fine before the eventual trial.

[6] CRIMINAL DAMAGE TO PROPERTY
an "A" misdemeanor

Can usually be plea bargained to disorderly conduct.

[7] ASSAULTING POLICE OFFICERS
a Felony

Can usually be plea bargained to disorderly conduct.

[8] ASSAULTING DELEGATES
Felony

Simple assault for most, but a federal offense if they are members of Congress.